

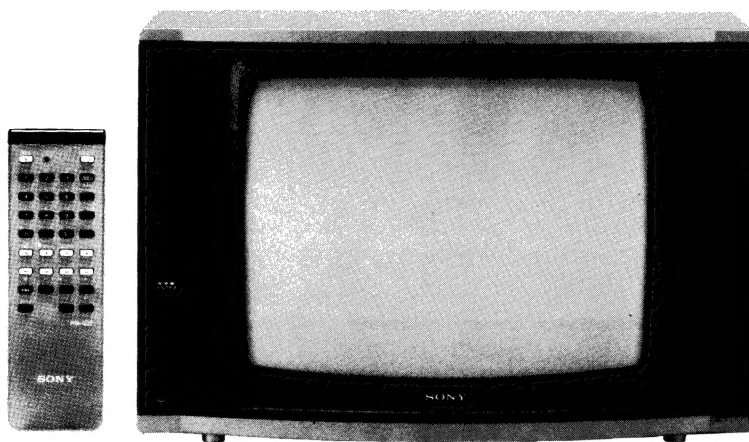
KV-2764EC

RM-635

SERVICE MANUAL

Belgium Model

Chassis No. SCC-660G-A



September, 1985

RX

 CHASSIS

SPECIFICATIONS

Television system	CCIR TV standards (system B,G and H)
Colour system	PAL
Zeiton system	Two carrier system
Channel coverage	VHF channels E2-S20 UHF channels E21-E68
Programming system	30 programmes Automatic programming digital tuning
Picture tube	Approx. 68 cm (27 inches), approx. 64 cm screen measured diagonally 114-degree deflection Trinitron system
Aerial	75-ohm standard aerial socket (DIN 45325/IEC 169-2)
Audio output	10 W + 10 W (music power)
Input/output	21-pin connector in accordance with the requirements of CENELEC standard
Outputs	Audio output connector (5-pin DIN) Recording output: 1 mV rms/kilohm Line output: variable, 0-2 V rms (max.) impedance less than 1 kilohm External speaker terminals (2-pin DIN) For 8 to 16 ohm speakers Headphones jack (stereo phone jack)
Power requirements	220-240 V ac, 50 Hz
Power consumption	150 W
Dimensions	Approx. 800 x 543 x 475 mm (w/h/d)
Weight	Approx. 52kg
Accessory supplied	Remote Commander RM-635
Optional accessory	OPK-202 SECAM adaptor OPK-203 teletext adaptor

Design and specifications are subject to change without notice.

RM-635

Remote control system	Infrared control
Power requirements	3 V dc 2 batteries IEC designation R03 (size AAA)
Dimensions	Approx. 54 x 16 x 165 mm (w/h/d)
Weight	Approx. 100 g incl. batteries
Accessories supplied	IEC designation R03 battery (2)

Design and specifications are subject to change without notice.



TRINITRON® COLOR TV


SONY®

CTV

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1. GENERAL		
1-1.	Location and Function of Controls	3
2. DISASSEMBLY		
2-1.	OPK-202 Attaching	5
2-2.	OPK-203 Attaching	6
3. EXPLODED VIEW		
3-1.	Cabinet	7
3-2.	CRT	8
3-3.	Chassis	9
4. ELECTRICAL PARTS LIST	10
5. REMOTE COMMANDER		
5-1.	Remote TV Operation	24
5-2.	Exploded View	27
5-3.	Electrical Parts List	28

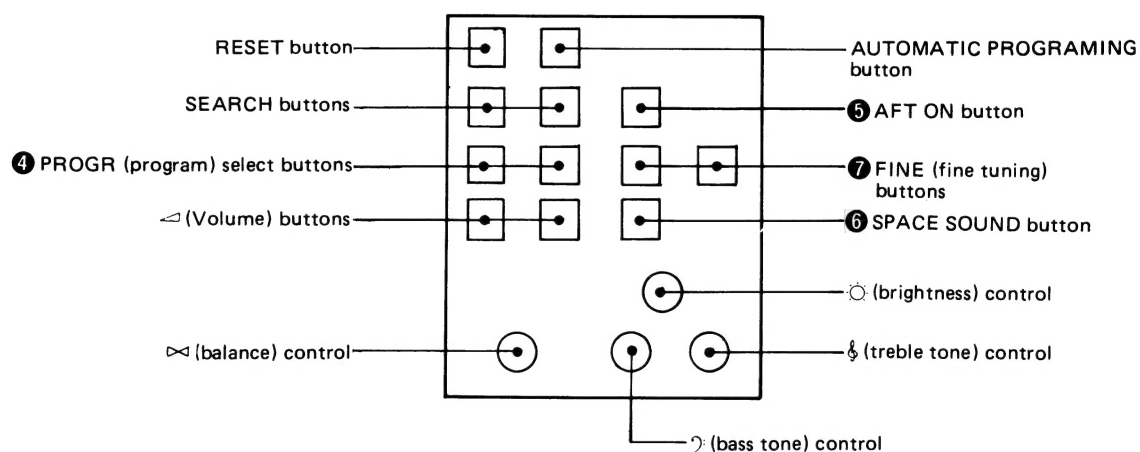
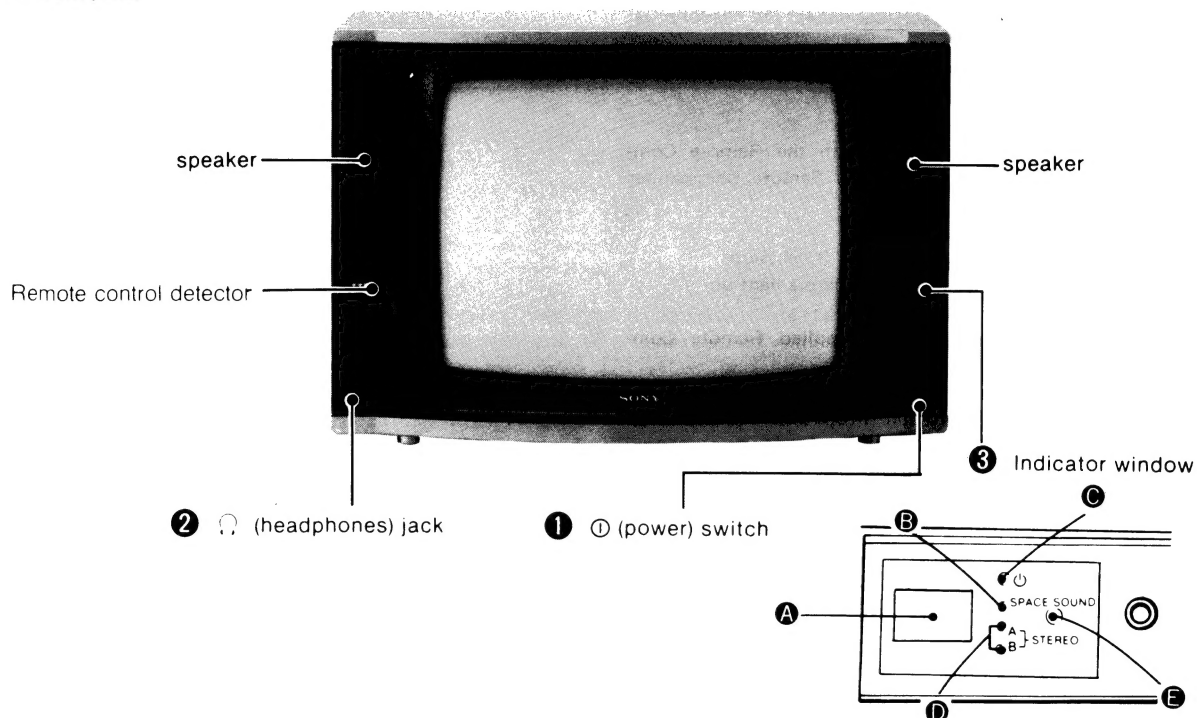
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

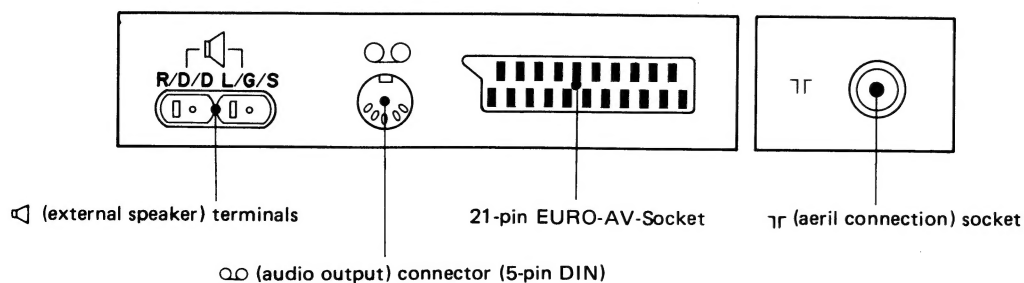
SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS

On the front panel



On the rear panel



① (power) switch

Press to turn the TV on. Press again to turn the power off.

② (headphones) jack

Connect stereo headphones here. Speaker sound will be disconnected. If your stereo headphones have a stereo miniplug use an optional plug adaptor. To hear the sound from the speakers disconnect the headphones.

③ Indicator window

A Program indicator

B SPACE SOUND indicator

C (standby) indicator

Lights up when the TV is turned off with the Remote Commander. When any of the buttons on the Remote Commander is pressed this lamp blinks.

D Zweiton/STEREO indicators

When a dual-sound program is received, A or B lights up.

When a stereo program is received both indicators light up.

E Remote control detector

Point the infrared transmitter of the supplied Remote Commander here.

④ PROGR (program) select buttons

Press either + or – to select a preset program (from positions 1 through 30). Press + for higher numbered programs and – for lower numbered programs. Programs will be changed continuously in sequence. The selected program number will appear on the program indicator.

⑤ AFT (automatic fine tuning) ON button

When the AFT circuit activates the indicator illuminates.

Press the AFT ON button to restore the AFT on the channel which has been fine-tuned manually with the FINE buttons. After the automatic programming is finished, or after a station is tuned and memorized in the manual programming system the AFT circuit will automatically reactivate.

⑥ SPACE SOUND button

Press to get special acoustic effects (for example more presence). The SPACE SOUND indicator will illuminate. To disengage press it again.

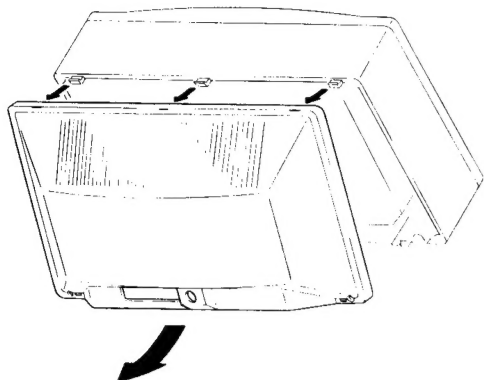
⑦ FINE (fine tuning) buttons

Keep either + or – depressed to get a clear picture for each unsatisfactory channel. The AFT circuit will be automatically deactivated.

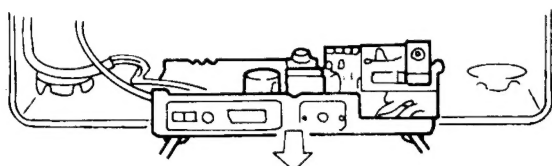
SECTION 2 DISASSEMBLY

2-1. OPK-202 ATTACHING

- 1 Remove the rear panel.

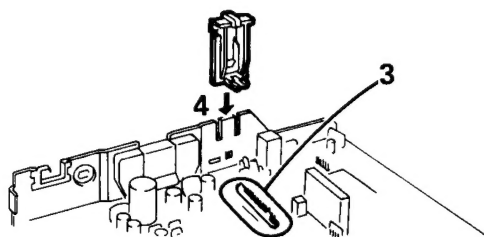


- 2 Pull out the main D board.

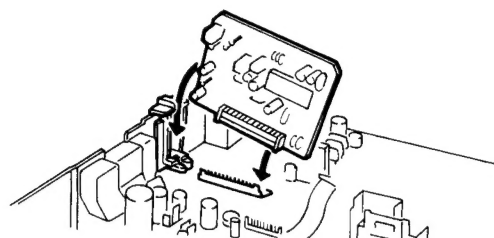


- 3 Cut off the five soldered connections marked SCM on the D-board:
JW 158, 169, 170, 171 and 172.

- 4 Insert the larger holder into the lefthand side frame.



- 5 Insert the adaptor into the D-20 board aligning the righthand pins first, and slide into the slot of the holder.



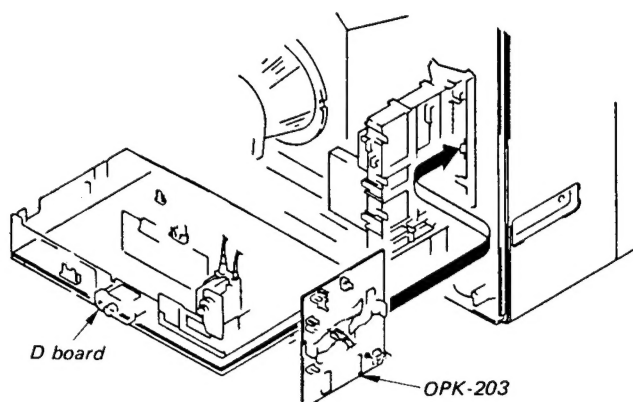
- 6 Connect the power plug, and check that the SECAM program is displayed in color.

7. Disconnect the power plug again and attach the rear panel.

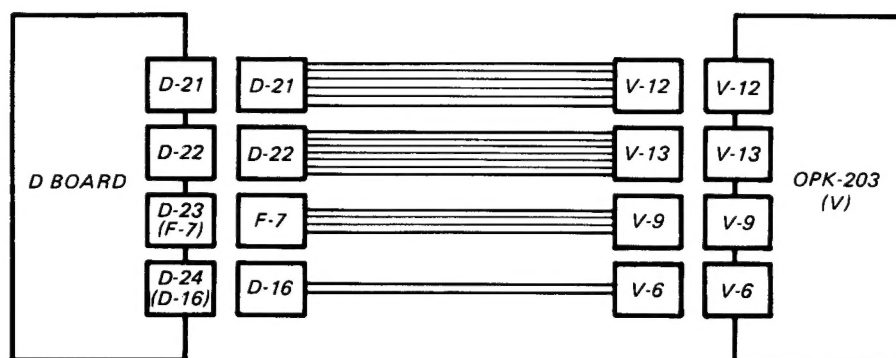
2-2. OPK-203 ATTACHING

Before installing the adaptor, unplug the set from the wall outlet.

1. Remove the rear panel.
2. Pull out the main D board.
3. Attach the OPK-203 board on the set in the reserved position using the holder or sash provided.



4. Connect to the reserve terminals as the connector.



5. Cut out the D004 of the D board.
6. PICTURE ADJUSTMENT
 - RV3: Adjust this VR to give the optimum contrast on TXT display.
 - RV2: Adjust this VR to obtain stable picture on non-interlace models.
7. Attach the rear panel.


SECTION 3

EXPLODED VIEWS

NOTE:

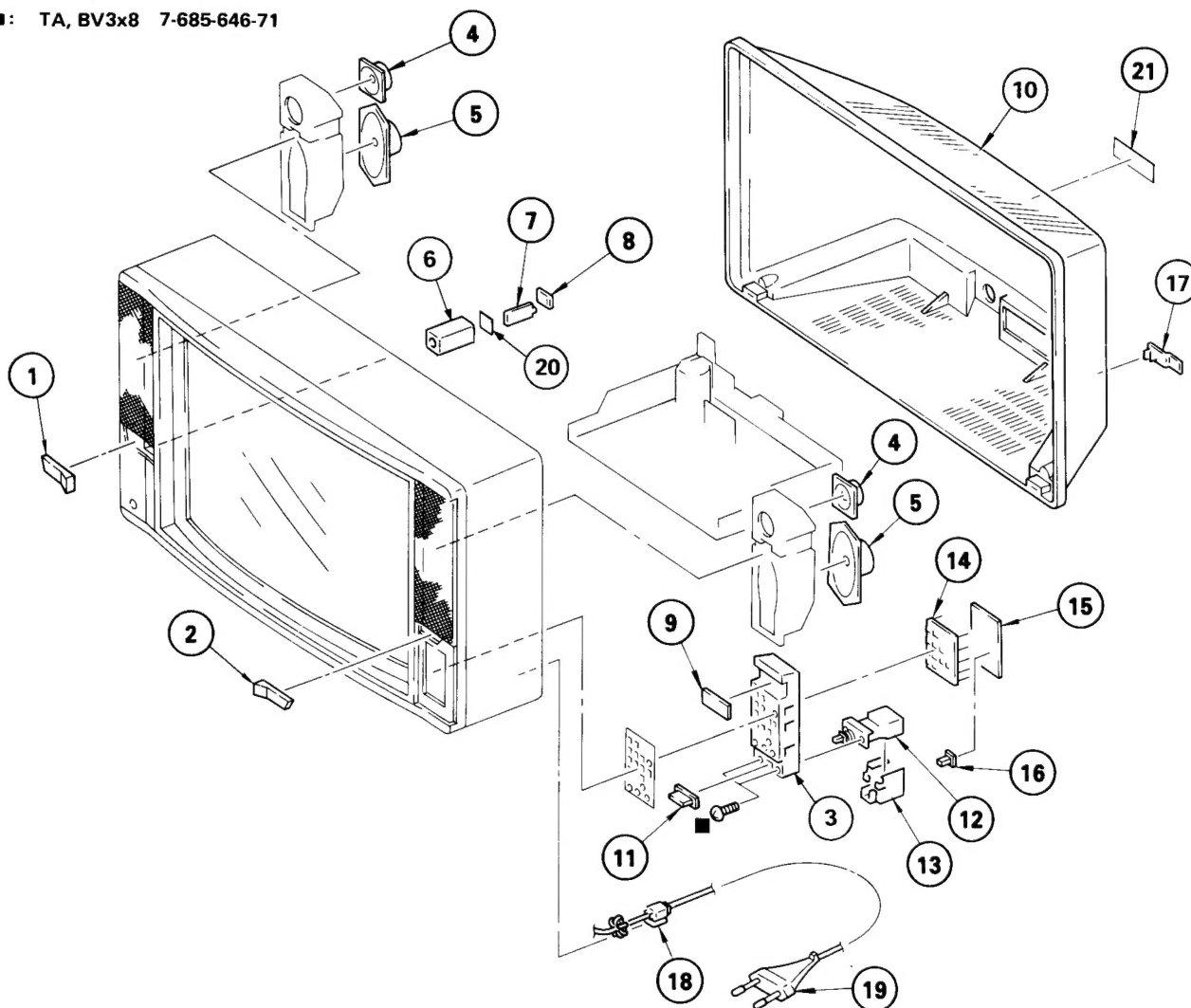
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.




The components identified by shading and mark  are critical for safety. Replace only with part number specified.

3-1. CABINET

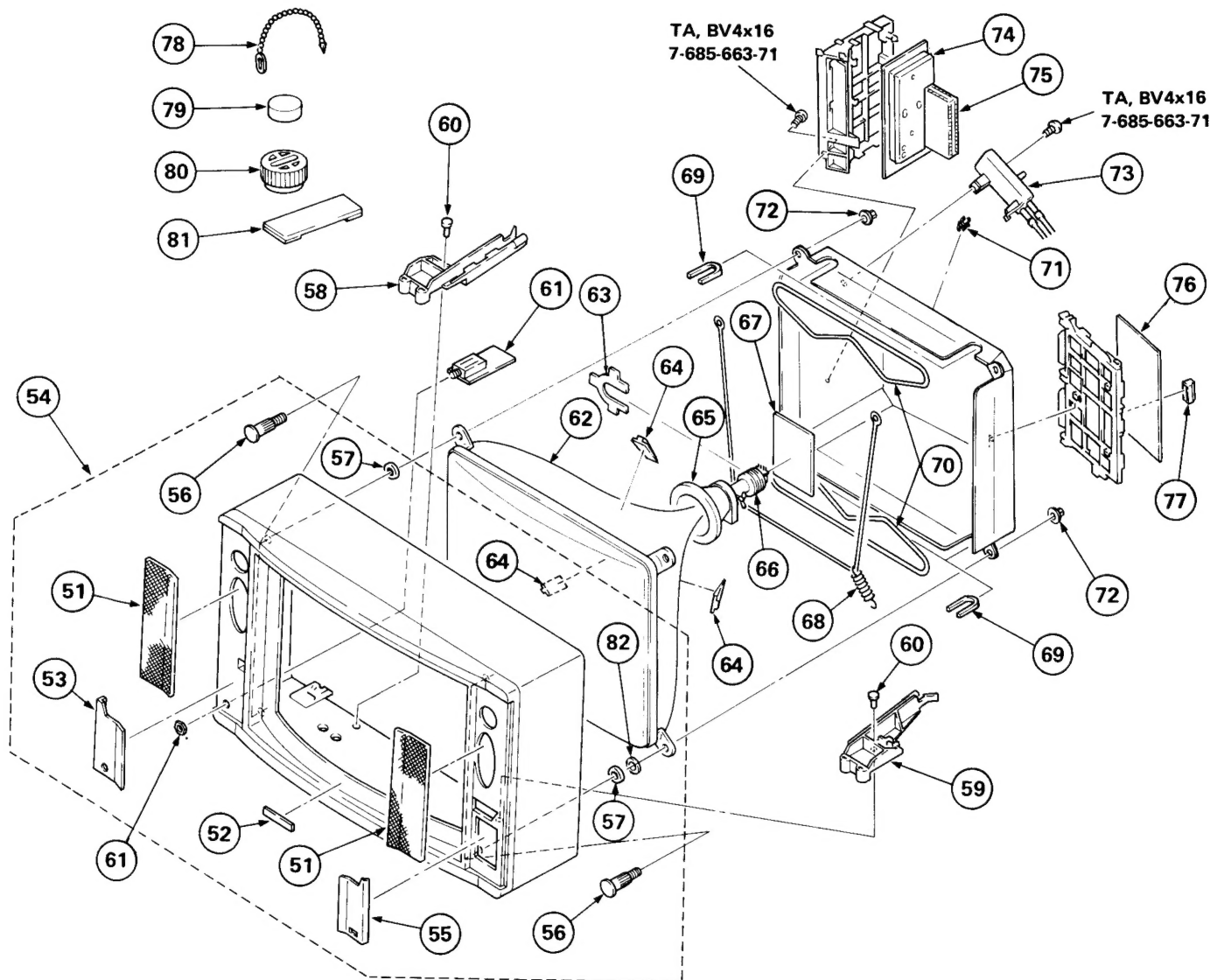
■: TA, BV3x8 7-685-646-71



No.	Part No.	Description
1	X-4373-201-1	WINDOW (L) ASSY, ORNAMENTAL
2	4-373-223-01	WINDOW (RIGHT), ORNAMENTAL
3	*4-373-232-01	PANEL, CONTROL
4	1-503-314-11	SPEAKER
5	1-503-417-11	SPEAKER
6	*4-342-117-00	CASE, SHIELD (MAIN), R
7	*1-611-717-11	N BOARD
8	*4-342-118-00	LID, SHIELD CASE, R
9	*1-612-977-21	H2 BOARD
10	4-373-229-01	COVER, REAR
11	4-373-206-01	BUTTON, POWER

Remark	No.	Part No.	Description	Remark
	12	 .1-554-762-11	SWITCH, PUSH (AC POWER)(1 KEY)	
	13	*4-373-216-01	CAP, INSULATING, POWER SWITCH	
	14	4-373-213-01	BUTTON, MULTI	
	15	*1-612-976-21	H1 BOARD	
	16	4-361-938-00	PUSH BUTTON (A)	
	17	4-329-127-00	CLAMP, CORD	
	18	 .4-022-115-01	HOLDER, AC CORD	
	19	 .1-551-270-31	CORD, POWER	
	20	*4-333-624-00	FILM (N), SPECIAL	
	21	*4-373-209-02	LABEL, MODEL NUMBER	

3-2. CRT

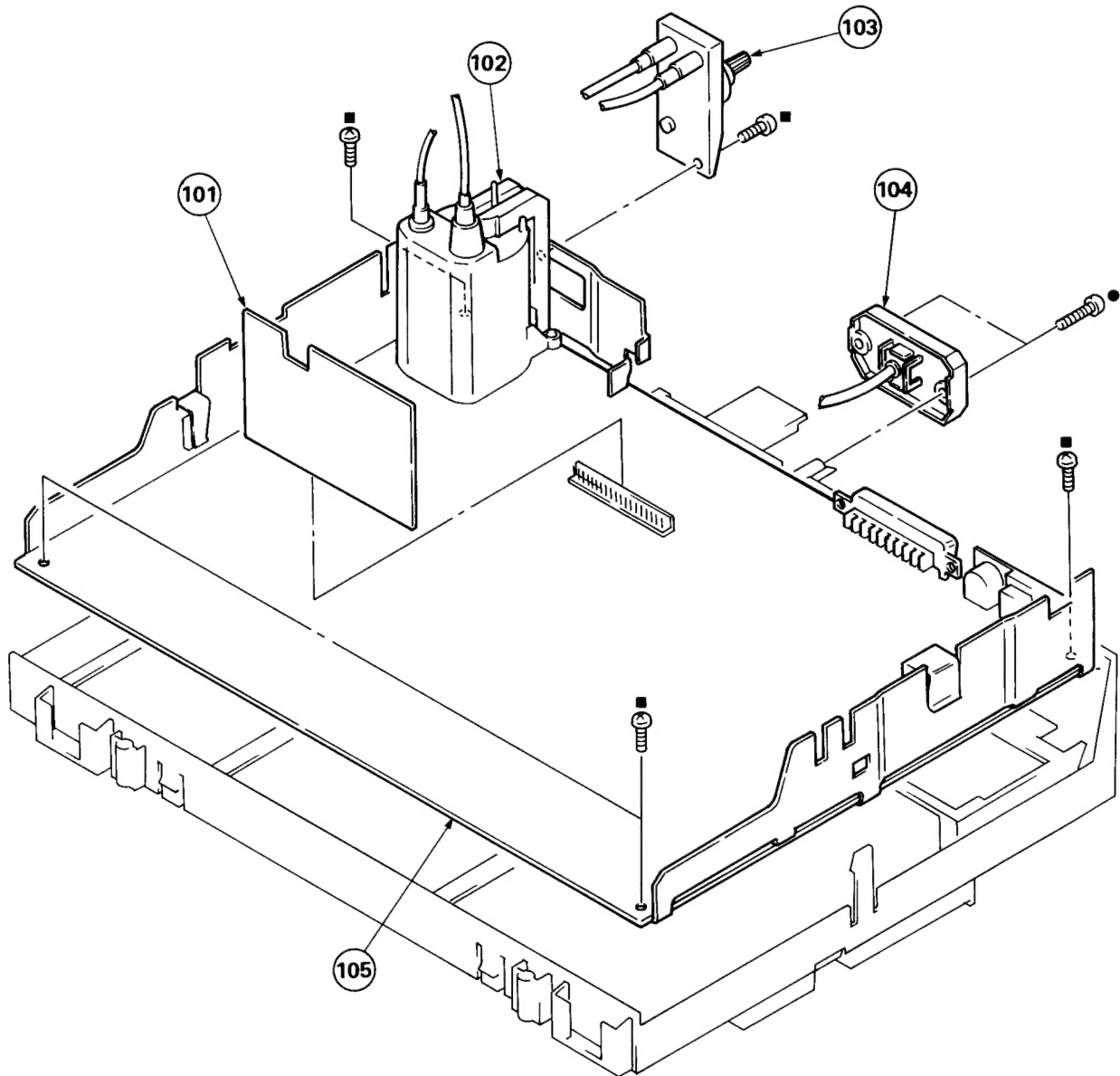


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	4-373-218-01	PLATE, ORNAMENTAL		67	*A-1330-616-A	C BOARD, COMPLETE	
52	3-701-912-00	EMBLEM, SONY, (LARGE)		68	4-303-774-XX	SPRING	
53	4-373-222-01	DOOR (LEFT)		69	*4-330-306-00	BUSHING, CRT INSULATING	
54	X-4373-202-1	CABINET ASSY	51,52,53,55,56,57,82	70	▲1-426-041-21	COIL, DEGAUSSING	
55	4-373-221-01	DOOR (RIGHT)		71	*4-322-922-00	HOLDER, COIL, DEGAUSSER	
56	4-373-204-01	SCREW, SPECIAL		72	4-373-210-01	NUT, SPECIAL	
57	4-373-205-01	WASHER, SPECIAL		73	▲1-228-544-11	RESISTOR ASSY, HIGH-VOLTAGE	
58	*4-373-228-01	HOLDER (C) (LEFT)		74	*A-1296-015-A	A BOARD, SUB, COMPLETE	
59	*4-373-227-01	HOLDER (C) (RIGHT)		75	▲1-463-577-11	TUNER, ET (BT-883A)	
60	4-373-234-01	CLIP		76	*A-1245-313-A	F BOARD, SUB, COMPLETE	
61	*1-615-566-11	J1 BOARD		77	*4-375-709-01	COVER, FUSE	
62	▲8-736-752-05	CRT (A64JKB00X)		78	4-308-870-00	CLIP, LEAD WIRE	
63	1-452-146-21	MAGNET, BMC		79	1-452-032-00	MAGNET, DISK; 10MM Ø	
64	3-703-003-00	SPACER, DY		80	1-452-094-00	MAGNET, ROTABLE DISK; 15MM Ø	
65	▲1-451-156-51	DEFLECTION YOKE (SY-105)		81	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
66	▲1-452-315-11	CRT NECK ASSY (NA303)		82	4-373-255-01	WASHER, CATHODE RAY TUBE	

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

3-3. CHASSIS

- : TA, BV3x8 7-685-646-71
●: TA, BV3x12 7-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101	*A-1340-714-A	D1 BOARD, COMPLETE		104	▲.1-536-817-31	TERMINAL BOARD ASSY, ANTENNA	
102	▲.1-439-332-41	TRANSFORMER ASSY, FLYBACK		105	*A-1345-536-A	D BOARD, SUB, COMPLETE	
103	▲.1-215-066-21	RES ASSY, HIGH-VOLTAGE					

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

F

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

• Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ F

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1245-313-A	F BOARD, SUB, COMPLETE *****					
		CAPACITOR				DIODE	
C601	A 1-108-745-62	MYLAR 0.22MF 20% 300V		D601	8-719-503-06	DIODE S3WB60Z	
C602	A 1-108-745-62	MYLAR 0.22MF 20% 300V		D602	8-719-100-65	DIODE RD12E-B2	
C603	A 1-161-738-12	CERAMIC 0.0047MF 20% 400V		D603	8-719-815-55	DIODE 1S1555	
C604	A 1-161-738-12	CERAMIC 0.0047MF 20% 400V		D604	8-759-157-40	IC UPC574J	
C605	A 1-161-738-12	CERAMIC 0.0047MF 20% 400V		D605	8-719-901-93	DIODE V19E	
C606	A 1-161-738-12	CERAMIC 0.0047MF 20% 400V		D606	8-719-815-55	DIODE 1S1555	
C607	1-161-964-00	CERAMIC 0.0047MF 250V		D607	8-719-815-55	DIODE 1S1555	
C608	A 1-161-964-61	CERAMIC 0.0047MF 250V		D608	8-719-815-55	DIODE 1S1555	
C609	A 1-161-964-61	CERAMIC 0.0047MF 250V		D609	8-719-305-15	DIODE GH3F	
C610	1-125-318-00	ELECT(BLOCK) 220MF 20% 400V		D651	8-719-928-08	DIODE ERD28-08S	
C611	1-106-220-00	MYLAR 0.1MF 10% 100V		D652	8-719-901-93	DIODE V19E	
C612	1-130-022-00	FILM 0.0022MF 5% 50V		D653	8-719-901-93	DIODE V19E	
C613	1-123-356-00	ELECT 10MF 20% 16V		D654	8-719-901-93	DIODE V19E	
C614	1-123-369-00	ELECT 4.7MF 20% 25V		D654A	8-719-901-93	DIODE V19E	
C615	1-102-106-00	CERAMIC 100PF 10% 50V		D655	8-719-901-93	DIODE V19E	
C616	1-123-369-00	ELECT 4.7MF 20% 25V		D655A	8-719-901-93	DIODE V19E	
C617	1-106-359-00	MYLAR 0.0047MF 10% 200V		D656	8-719-901-93	DIODE V19E	
C618	1-102-030-00	CERAMIC 330PF 10% 500V		D657	8-719-901-93	DIODE V19E	
C619	1-108-630-91	MYLAR 0.022MF 10% 100V		D658	8-719-102-74	DIODE RD6.2E-N2	
C620	1-123-332-00	ELECT 47MF 20% 16V		D659	8-719-102-79	DIODE RD6.8E-N3	
C621	1-136-065-00	FILM 0.0027MF 3% 2KV		D660	8-719-815-55	DIODE 1S1555	
C622	1-123-385-00	ELECT 22MF 20% 100V		D661	8-719-815-55	DIODE 1S1555	
C623	1-161-973-00	CERAMIC 220PF 10% 400V		D663	8-719-102-74	DIODE RD6.2E-N2	
C624	1-161-973-00	CERAMIC 220PF 10% 400V		D664	8-719-100-65	DIODE RD12E-B2	
C625	1-123-379-00	ELECT 0.47MF 20% 50V				CONNECTOR	
C626	1-123-381-00	ELECT 2.2MF 20% 50V		F1	*1-506-349-21	3P PLUG (L)	
C627	1-123-380-00	ELECT 1MF 20% 50V		F2	*1-508-765-00	3P PLUG (M)	
C628	1-108-618-91	MYLAR 0.0022MF 10% 100V		F3	*1-508-786-00	2P PLUG (M)	
C632	1-102-002-00	CERAMIC 680PF 10% 500V		F4	*1-508-765-00	3P PLUG (M)	
C633	A 1-108-745-62	MYLAR 0.22MF 20% 300V		F6	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
C634	1-110-175-81	MYLAR 0.1MF 10% 100		F7	*1-564-883-11	PLUG, CONNECTOR 6P	
C651	1-102-155-00	CERAMIC 330PF 20% 2KV				FUSE	
C652	1-124-347-00	ELECT 100MF 20% 160V		F601	A 1-532-465-31	FUSE, TIME-LAG 3.15A	
C653	1-123-364-00	ELECT 1000MF 20% 50V			1-533-087-00	HOLDER, FUSE; F601	
C654	1-123-606-00	ELECT 1000MF 20% 25V				IC	
C655	1-123-334-00	ELECT 220MF 20% 25V		IC601	8-759-100-75	IC UPC1394C	
C656	1-102-038-00	CERAMIC 0.001MF 500V		IC602	A 8-719-800-82	DIODE TLP581	
C658	1-123-332-00	ELECT 47MF 20% 16V		IC651	8-759-145-58	IC UPC4558C	
C659	1-102-112-00	CERAMIC 330PF 10% 50V				COIL	
C660	1-123-356-00	ELECT 10MF 20% 50V		L601	1-407-365-00	COIL, CHOKE	
C661	1-123-333-00	ELECT 100MF 20% 16V		L651	1-425-613-00	COIL, AIR-CORE, QF TYPE	
C662	1-106-196-00	MYLAR 0.01MF 10% 100V		L652	1-459-442-00	COIL (WITH CORE)	
C663	1-123-380-00	ELECT 1MF 20% 50V				TRANSISTOR	
C664	1-123-380-00	ELECT 1MF 20% 50V		Q601	8-729-195-82	TRANSISTOR 2SC2958	
C666	1-123-307-00	ELECT 100MF 20% 6.3V		Q602	8-729-301-00	TRANSISTOR 2SD1497-02	
C667	1-102-121-00	CERAMIC 0.0022MF 10% 50V			4-365-216-00	SPACER, MICA; Q602	

A

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*4-368-683-01	SPRING; Q602		R666	1-215-144-00	METAL	470 5% 1/4W
Q603	8-729-245-83	TRANSISTOR 2SC2458		R667	1-215-126-81	METAL	82 5% 1/4W
Q604	8-729-204-83	TRANSISTOR 2SA1048GR		R668	1-215-778-91	METAL	47K 5% 1/6W
Q651	8-729-109-53	TRANSISTOR 2SD795A		R669	1-215-166-00	METAL	3.9K 5% 1/4W
	*4-323-833-00	HEAT SINK, PIN OUT; Q651		R670	1-215-746-91	METAL	2.2K 5% 1/6W
Q652	8-729-245-83	TRANSISTOR 2SC2458				VARIABLE RESISTOR	
		RESISTOR		RV651	1-228-720-00	RES, ADJ, CERAMIC CARBON 1K	
R601	1-217-328-11	WIREWOUND	2.7 10% 7W F	RV652	1-230-521-11	RES, ADJ, METAL GLAZE 2.2K	
R602	1-244-945-91	CARBON	1M 5% 1/2W			TRANSFORMER	
R603	1-217-310-11	WIREWOUND	100 10% 5W F	T601	1-421-758-11	TRANSFORMER, LINE FILTER (LFT)	
R604	1-247-289-11	CARBON	8.2M 5% 1W	T602	1-441-855-11	TRANSFORMER, HEATER INSULATION	
R605	1-215-798-91	METAL	330K 5% 1/6W	T603	1-437-079-00	TRANSFORMER, HPRIZONTAL DRIVE	
R606	1-215-770-91	METAL	22K 5% 1/6W	T605	1-421-652-11	TRANSFORMER, FERRITE (SRT)	
R608	1-215-746-91	METAL	2.2K 5% 1/6W			THERMISTOR	
R609	1-215-871-11	METAL OXIDE	2.2K 5% 1W F	TH601	1-800-944-00	THERMISTOR TH-4700	
R611	1-215-776-91	METAL	39K 5% 1/6W	TH651	1-800-944-00	THERMISTOR TH-4700	
R612	1-215-904-51	METAL OXIDE	100K 5% 2W F	THP601	1-806-387-11	THERMISTOR (POSITIVE)	
R613	1-215-872-11	METAL OXIDE	3.3K 5% 1W F			*****	
R614	1-216-458-11	METAL OXIDE	1.8K 5% 2W F		*1-611-717-11	N BOARD	
R615	1-205-793-00	CEMENTED	30K 10% 10W			*****	
R616	1-215-772-91	METAL	27K 5% 1/6W		*4-342-117-00	CASE, SHIELD (MAIN), R	
R621	1-215-762-91	METAL	10K 5% 1/6W		*4-342-118-00	LID, SHIELD CASE, R	
R622	1-215-770-91	METAL	22K 5% 1/6W			CAPACITOR	
R623	1-215-162-00	METAL	2.7K 5% 1/4W	C1	1-123-611-00	ELECT	1MF 20% 50V
R624	1-215-754-91	METAL	4.7K 5% 1/6W	C2	1-123-613-00	ELECT	3.3MF 20% 50V
R625	1-215-786-91	METAL	100K 5% 1/6W	C3	1-102-112-00	CERAMIC	330PF 10% 50V
R626	1-215-150-00	METAL	820 5% 1/4W	C4	1-123-821-00	ELECT	47MF 20% 16V
R627	1-215-722-91	METAL	220 5% 1/6W			DIODE	
R628	1-215-796-91	METAL	270K 5% 1/6W	D1	8-719-110-32	DIODE PH302B	
R629	1-215-758-91	METAL	6.8K 5% 1/6W			IC	
R630	1-215-112-00	METAL	22 5% 1/4W	IC1	8-752-010-60	IC CX20106	
R631	1-205-728-00	CEMENTED	47 10% 7W			RESISTOR	
R632	1-217-192-00	WIREWOUND	0.22 10% 2W F	R1	1-247-799-00	CARBON	47 5% 1/6W
R633	1-215-798-91	METAL	330K 5% 1/6W	R2	1-247-775-00	CARBON	4.7 5% 1/6W
R634	1-215-800-91	METAL	390K 5% 1/6W	R3	1-214-784-00	METAL	200K 1% 1/4W
R635	1-215-756-91	METAL	5.6K 5% 1/6W	R4	1-247-863-00	CARBON	22K 5% 1/6W
R636	1-215-803-91	METAL	510K 5% 1/6W			*****	
R637	1-215-770-91	METAL	22K 5% 1/6W		*A-1296-015-A	A BOARD, SUB, COMPLETE	
R638	1-215-747-91	METAL	2.4K 5% 1/6W			*****	
R639	1-215-754-91	METAL	4.7K 5% 1/6W		*4-368-692-11	CASE (MAIN), SHIELD	
R640	1-215-200-81	METAL	100K 5% 1/4W		*4-368-693-11	CASE (UPPER LID), SHIELD	
R641	1-215-200-81	METAL	100K 5% 1/4W		*4-368-694-11	CASE (BOTTOM LID), SHIELD	
R651	1-216-455-11	METAL OXIDE	560 5% 2W F				
R652	1-216-430-11	METAL OXIDE	390 5% 1W F				
R653	1-215-754-91	METAL	4.7K 5% 1/6W				
R654	1-216-464-11	METAL OXIDE	18K 5% 2W F				
R659	1-215-865-11	METAL OXIDE	220 5% 1W F				
R660	1-216-370-11	METAL OXIDE	1.2 5% 2W F				
R662	1-215-776-91	METAL	39K 5% 1/6W				
R663	1-215-764-91	METAL	12K 5% 1/6W				
R664	1-215-200-00	METAL	100K 5% 1/4W				
R665	1-215-753-91	METAL	4.3K 5% 1/6W				

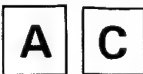
The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

A

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
CONNECTOR				C151	1-101-004-00	CERAMIC 0.01MF	50V
A1	*1-564-880-31	PLUG, CONNECTOR 3P		C152	1-101-004-00	CERAMIC 0.01MF	50V
A2	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		C153	1-123-356-00	ELECT 10MF	20% 16V
A3	*1-564-889-11	PLUG, CONNECTOR 12P		C154	1-101-004-00	CERAMIC 0.01MF	50V
CAPACITOR				C155	1-123-332-00	ELECT 47MF	20% 16V
C102	1-123-586-00	ELECT 0.1MF	20% 50V	C156	1-123-306-00	ELECT 47MF	20% 10V
C104	1-123-356-00	ELECT 10MF	20% 16V	C157	1-123-306-00	ELECT 47MF	20% 10V
C105	1-123-356-00	ELECT 10MF	20% 16V	C158	1-123-379-00	ELECT 0.47MF	20% 50V
C106	1-123-323-00	ELECT 470MF	20% 16V	C159	1-102-816-00	CERAMIC 120PF	5% 50V
C107	1-123-330-00	ELECT 22MF	20% 16V	C160	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C108	1-136-163-00	FILM 0.068MF	5% 50V	C164	1-108-620-91	MYLAR 0.0033MF	10% 100V
C109	1-136-163-00	FILM 0.068MF	5% 50V	C165	1-108-620-91	MYLAR 0.0033MF	10% 100V
C110	1-102-963-00	CERAMIC 33PF	5% 50V	C167	1-108-620-91	MYLAR 0.0033MF	10% 100V
C111	1-123-318-00	ELECT 33MF	20% 16V	C168	1-108-620-91	MYLAR 0.0033MF	10% 100V
C112	1-102-530-00	CERAMIC 120PF	5% 50V	C169	1-123-356-00	ELECT 10MF	20% 16V
C113	1-102-530-00	CERAMIC 120PF	5% 50V	C170	1-123-356-00	ELECT 10MF	20% 16V
C114	1-102-851-00	CERAMIC 15PF	5% 50V	C171	1-123-318-00	ELECT 33MF	20% 16V
C115	1-102-518-00	CERAMIC 33PF	5% 50V	C172	1-123-379-00	ELECT 0.47MF	20% 50V
C116	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C173	1-123-379-00	ELECT 0.47MF	20% 50V
C117	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C174	1-106-196-00	MYLAR 0.01MF	10% 100V
C118	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C175	1-106-196-00	MYLAR 0.01MF	10% 100V
C119	1-108-603-00	MYLAR 0.1MF	5% 50V	C176	1-123-380-00	ELECT 1MF	20% 50V
C120	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C177	1-123-380-00	ELECT 1MF	20% 50V
C122	1-123-330-00	ELECT 22MF	20% 16V	C179	1-123-369-00	ELECT 4.7MF	20% 25V
C123	1-102-108-00	CERAMIC 150PF	10% 50V	C180	1-108-620-91	MYLAR 0.0033MF	10% 100V
C124	1-104-069-00	POLYSTYRENE 470PF	5% 50V	C181	1-123-318-00	ELECT 33MF	20% 16V
C126	1-123-318-00	ELECT 33MF	20% 16V	C182	1-123-307-00	ELECT 100MF	20% 10V
C127	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C183	1-101-361-00	CERAMIC 150PF	5% 50V
C128	1-101-004-00	CERAMIC 0.01MF	50V	C184	1-102-973-00	CERAMIC 100PF	5% 50V
C129	1-101-004-00	CERAMIC 0.01MF	50V	C186	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C130	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C188	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C131	1-123-381-00	ELECT 2.2MF	20% 50V	DISCRIMINATOR			
C132	1-102-125-00	CERAMIC 0.0047MF	10% 50V	CD151	1-404-501-00	DISCRIMINATOR, CERAMIC	
C133	1-102-125-00	CERAMIC 0.0047MF	10% 50V	FILTER			
C134	1-102-125-00	CERAMIC 0.0047MF	10% 50V	CF101	1-527-840-00	FILTER, CERAMIC	
C135	1-102-525-00	CERAMIC 68PF	5% 50V	CF102	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
C136	1-102-525-00	CERAMIC 68PF	5% 50V	CF151	1-527-839-00	FILTER, CERAMIC	
C137	1-102-125-00	CERAMIC 0.0047MF	10% 50V	DIODE			
C138	1-123-380-00	ELECT 1MF	20% 50V	D101	8-719-911-19	DIODE 1SS119	
C139	1-102-125-00	CERAMIC 0.0047MF	10% 50V	D102	8-719-911-19	DIODE 1SS119	
C140	1-102-125-00	CERAMIC 0.0047MF	10% 50V	D103	8-719-102-71	DIODE RD5.6E-N2	
C141	1-123-318-00	ELECT 33MF	20% 16V	D104	8-719-911-19	DIODE 1SS119	
C142	1-102-525-00	CERAMIC 68PF	5% 50V	D105	8-719-911-19	DIODE 1SS119	
C143	1-101-004-00	CERAMIC 0.01MF	50V	D151	8-719-911-19	DIODE 1SS119	
C144	1-123-286-00	ELECT 0.33MF	20% 50V	D152	8-719-911-19	DIODE 1SS119	
C145	1-102-961-00	CERAMIC 27PF	5% 50V	D153	8-719-911-19	DIODE 1SS119	
C146	1-123-380-00	ELECT 1MF	20% 50V	D154	8-719-911-19	DIODE 1SS119	
C147	1-130-072-00	FILM 0.022MF	2% 100V	D170	8-719-911-19	DIODE 1SS119	
C148	1-108-622-91	MYLAR 0.0047MF	10% 100V	D171	8-719-911-19	DIODE 1SS119	
C149	1-102-529-00	CERAMIC 100PF	5% 50V				
C150	1-102-852-00	CERAMIC 47PF	5% 50V				

A

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>IC</u>				R110	1-249-421-11	CARBON 2.2K 5% 1/6W	
IC101	8-759-909-08	IC TDA3541		R111	1-247-847-00	CARBON 4.7K 5% 1/6W	
IC102	8-759-909-54	IC TDA2546A		R112	1-247-827-00	CARBON 680 5% 1/6W	
IC103	8-759-602-16	IC M54572L		R113	1-247-845-00	CARBON 3.9K 5% 1/6W	
IC151	8-759-007-54	IC TDA4940		R114	1-247-815-00	CARBON 220 5% 1/6W	
IC152	8-759-007-55	IC TDA4944		R115	1-249-419-11	CARBON 1.5K 5% 1/6W	
<u>COIL</u>				R116	1-247-823-00	CARBON 470 5% 1/6W	
L101	1-404-476-00	COIL, IF		R117	1-247-803-00	CARBON 68 5% 1/6W	
L102	1-404-476-00	COIL, IF		R118	1-247-817-00	CARBON 270 5% 1/6W	
L103	1-408-399-00	MICRO INDUCTOR 1.5UH		R119	1-247-823-00	CARBON 470 5% 1/6W	
L104	1-408-406-00	MICRO INDUCTOR 5.6UH		R120	1-249-437-11	CARBON 47K 5% 1/6W	
L105	1-404-477-00	COIL, IF		R122	1-249-429-11	CARBON 10K 5% 1/6W	
L106	1-404-493-00	COIL		R125	1-247-829-00	CARBON 820 5% 1/6W	
L107	1-404-493-00	COIL		R126	1-247-829-00	CARBON 820 5% 1/6W	
L109	1-408-409-00	MICRO INDUCTOR 10UH		R127	1-247-829-00	CARBON 820 5% 1/6W	
L110	1-408-406-00	MICRO INDUCTOR 5.6UH		R129	1-247-903-00	CARBON 1M 5% 1/6W	
L111	1-404-493-00	COIL		R131	1-249-437-11	CARBON 47K 5% 1/6W	
L113	1-408-226-00	MICRO INDUCTOR 82UH		R132	1-249-429-11	CARBON 10K 5% 1/6W	
L114	1-407-489-00	MICRO INDUCTOR 560UH		R134	1-247-875-00	CARBON 68K 5% 1/6W	
L116	1-408-406-00	MICRO INDUCTOR 5.6UH		R135	1-247-873-00	CARBON 56K 5% 1/6W	
L117	1-408-428-00	MICRO INDUCTOR 390UH		R136	1-247-863-00	CARBON 22K 5% 1/6W	
L170	1-408-247-00	MICRO INDUCTOR 33MMH		R137	1-247-863-00	CARBON 22K 5% 1/6W	
L171	1-408-408-00	MICRO INDUCTOR 8.2UH		R140	1-247-831-00	CARBON 1K 5% 1/6W	
<u>TRANSISTOR</u>				R141	1-247-859-00	CARBON 15K 5% 1/6W	
Q101	8-729-245-83	TRANSISTOR 2SC2458		R142	1-247-879-00	CARBON 100K 5% 1/6W	
Q102	8-729-105-47	TRANSISTOR 2SC2026-L		R143	1-247-879-00	CARBON 100K 5% 1/6W	
Q103	8-729-204-83	TRANSISTOR 2SA1048GR		R144	1-247-845-00	CARBON 3.9K 5% 1/6W	
Q104	8-729-900-36	TRANSISTOR DTC124ES		R145	1-247-845-00	CARBON 3.9K 5% 1/6W	
Q105	8-729-204-83	TRANSISTOR 2SA1048GR		R146	1-247-847-00	CARBON 4.7K 5% 1/6W	
Q151	8-729-245-83	TRANSISTOR 2SC2458		R151	1-247-829-00	CARBON 820 5% 1/6W	
Q152	8-729-245-83	TRANSISTOR 2SC2458		R152	1-247-869-00	CARBON 39K 5% 1/6W	
Q153	8-729-245-83	TRANSISTOR 2SC2458		R153	1-247-821-00	CARBON 390 5% 1/6W	
Q154	8-729-900-89	TRANSISTOR DTC144ES		R154	1-247-807-00	CARBON 100 5% 1/6W	
Q155	8-729-245-83	TRANSISTOR 2SC2458		R155	1-247-863-00	CARBON 22K 5% 1/6W	
Q156	8-729-245-83	TRANSISTOR 2SC2458		R156	1-247-877-00	CARBON 82K 5% 1/6W	
Q157	8-729-900-89	TRANSISTOR DTC144ES		R157	1-247-847-00	CARBON 4.7K 5% 1/6W	
Q158	8-729-900-89	TRANSISTOR DTC144ES		R158	1-247-847-00	CARBON 4.7K 5% 1/6W	
Q172	8-729-204-83	TRANSISTOR 2SA1048GR		R159	1-247-847-00	CARBON 4.7K 5% 1/6W	
Q173	8-729-245-83	TRANSISTOR 2SC2458		R160	1-247-847-00	CARBON 4.7K 5% 1/6W	
Q174	8-729-245-83	TRANSISTOR 2SC2458		R161	1-247-831-00	CARBON 1K 5% 1/6W	
Q175	8-729-245-83	TRANSISTOR 2SC2458		R162	1-247-831-00	CARBON 1K 5% 1/6W	
<u>RESISTOR</u>				R166	1-247-843-00	CARBON 3.3K 5% 1/6W	
R101	1-247-831-00	CARBON 1K 5% 1/6W		R167	1-247-867-00	CARBON 33K 5% 1/6W	
R102	1-247-831-00	CARBON 1K 5% 1/6W		R168	1-247-863-00	CARBON 22K 5% 1/6W	
R105	1-247-853-00	CARBON 8.2K 5% 1/6W		R172	1-247-813-00	CARBON 180 5% 1/6W	
R106	1-247-843-00	CARBON 3.3K 5% 1/6W		R173	1-249-437-11	CARBON 47K 5% 1/6W	
R107	1-247-843-00	CARBON 3.3K 5% 1/6W		R174	1-247-889-00	CARBON 270K 5% 1/6W	
R108	1-247-891-00	CARBON 330K 5% 1/6W		R175	1-249-434-11	CARBON 27K 5% 1/6W	
R109	1-249-421-11	CARBON 2.2K 5% 1/6W		R176	1-247-831-00	CARBON 1K 5% 1/6W	
				R177	1-249-429-11	CARBON 10K 5% 1/6W	
				R178	1-249-429-11	CARBON 10K 5% 1/6W	
				R179	1-249-429-11	CARBON 10K 5% 1/6W	
				R180	1-247-831-00	CARBON 1K 5% 1/6W	



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R181	1-247-833-00	CARBON 1.2K 5% 1/6W		C760	1-123-382-00	ELECT 33MF 20% 50V	
R182	1-249-421-11	CARBON 2.2K 5% 1/6W		C761	1-101-006-21	CERAMIC 0.047MF 50V	
R183	1-247-831-00	CARBON 1K 5% 1/6W		C762	1-106-196-00	MYLAR 0.01MF 10% 100V	
R184	1-247-817-00	CARBON 270 5% 1/6W					
R185	1-247-819-00	CARBON 330 5% 1/6W					
						DIODE	
R188	1-247-859-00	CARBON 15K 5% 1/6W		D701	8-719-911-19	DIODE 1SS119	
R191	1-247-825-00	CARBON 560 5% 1/6W		D702	8-719-911-19	DIODE 1SS119	
R192	1-247-825-00	CARBON 560 5% 1/6W		D703	8-719-911-19	DIODE 1SS119	
R193	1-247-807-00	CARBON 100 5% 1/6W		D704	8-719-911-19	DIODE 1SS119	
				D705	8-719-911-19	DIODE 1SS119	
				D706	8-719-911-19	DIODE 1SS119	
				D707	8-719-911-19	DIODE 1SS119	
				D708	8-719-911-19	DIODE 1SS119	
				D709	8-719-911-19	DIODE 1SS119	
				D710	8-719-100-68	DIODE RD13E-B2	
				D711	8-719-911-19	DIODE 1SS119	
						COIL	
				L751	1-408-413-00	MICRO INDUCTOR 22UH	
						TRANSISTOR	
				Q701	8-729-255-12	TRANSISTOR 2SC2551	
				Q702	8-729-255-12	TRANSISTOR 2SC2551	
				Q703	8-729-255-12	TRANSISTOR 2SC2551	
				Q704	8-729-326-11	TRANSISTOR 2SC2611	
				Q705	8-729-326-11	TRANSISTOR 2SC2611	
				Q706	8-729-326-11	TRANSISTOR 2SC2611	
				Q707	8-729-200-17	TRANSISTOR 2SA1091	
				Q708	8-729-200-17	TRANSISTOR 2SA1091	
				Q709	8-729-200-17	TRANSISTOR 2SA1091	
				Q710	8-729-204-83	TRANSISTOR 2SA1048GR	
				Q711	8-729-204-83	TRANSISTOR 2SA1048GR	
				Q712	8-729-204-83	TRANSISTOR 2SA1048GR	
				Q713	8-729-204-83	TRANSISTOR 2SA1048GR	
				Q714	8-729-900-36	TRANSISTOR DTC124ES	
				Q751	8-729-245-83	TRANSISTOR 2SC2458	
				Q752	8-729-245-83	TRANSISTOR 2SC2458	
				Q753	8-729-103-43	TRANSISTOR 2SB734	
				Q754	8-729-177-43	TRANSISTOR 2SD774	
						RESISTOR	
				R701	1-215-899-11	METAL OXIDE 15K 5% 2W F	
				R702	1-215-899-11	METAL OXIDE 15K 5% 2W F	
				R703	1-215-899-11	METAL OXIDE 15K 5% 2W F	
				R704	1-247-131-00	CARBON 1K 5% 1/4W F	
				R705	1-247-131-00	CARBON 1K 5% 1/4W F	
				R706	1-247-131-00	CARBON 1K 5% 1/4W F	
				R707	1-247-847-00	CARBON 4.7K 5% 1/6W	
				R708	1-247-847-00	CARBON 4.7K 5% 1/6W	
				R709	1-247-847-00	CARBON 4.7K 5% 1/6W	
				R710	1-214-784-00	METAL 200K 1% 1/4W	
				R711	1-214-784-00	METAL 200K 1% 1/4W	

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

C

D1

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R712	1-214-784-00	METAL	200K 1% 1/4W			SPARK GAP	
R713	1-247-853-00	CARBON	8.2K 5% 1/6W				
R714	1-247-853-00	CARBON	8.2K 5% 1/6W	SG701	1-519-063-XX	DISCHARGING GAP	
R715	1-247-854-00	CARBON	9.1K 5% 1/6W	SG702	1-519-063-XX	DISCHARGING GAP	
R716	1-247-725-11	CARBON	10K 5% 1/4W	SG703	1-519-063-XX	DISCHARGING GAP	
R717	1-247-725-11	CARBON	10K 5% 1/4W			*****	
R718	1-247-725-11	CARBON	10K 5% 1/4W				
R719	1-247-833-00	CARBON	1.2K 5% 1/6W			*A-1340-714-A D1 BOARD, COMPLETE	
R720	1-247-833-00	CARBON	1.2K 5% 1/6W			*****	
R721	1-247-833-00	CARBON	1.2K 5% 1/6W				
R722	1-247-843-00	CARBON	3.3K 5% 1/6W			CAPACITOR	
R723	1-247-843-00	CARBON	3.3K 5% 1/6W	C1528	1-123-380-00	ELECT 1MF 20% 50V	
R724	1-247-843-00	CARBON	3.3K 5% 1/6W	C1554	1-123-330-00	ELECT 22MF 20% 16V	
R725	1-214-962-00	METAL	820K 1% 1/4W	C1555	1-123-356-00	ELECT 10MF 20% 16V	
R726	1-214-960-00	METAL	680K 1% 1/4W	C1556	1-124-009-11	ELECT 47MF 20% 25V	
R727	1-214-952-00	METAL	330K 1% 1/4W	C1557	1-123-382-00	ELECT 3.3MF 20% 50V	
R730	1-215-890-11	METAL OXIDE	470 5% 2W F	C1558	1-124-661-11	ELECT 100MF 20% 50V	
R731	1-249-429-11	CARBON	10K 5% 1/6W	C1559	1-106-208-00	MYLAR 0.033MF 10% 100V	
R732	1-247-837-00	CARBON	1.8K 5% 1/6W	C1560	1-106-192-00	MYLAR 0.0068MF 10% 100V	
R733	1-247-827-00	CARBON	680 5% 1/6W	C1561	1-108-637-00	MYLAR 0.082MF 10% 100V	
R734	1-249-419-11	CARBON	1.5K 5% 1/6W	C1562	1-123-356-00	ELECT 10MF 20% 16V	
R741	1-207-458-00	WIREWOUND	0.39 10% 1/2W	C1563	1-108-630-91	MYLAR 0.022MF 10% 100V	
R742	1-202-814-91	SOLID	33K 10% 1/2W	C1564	1-129-701-00	FILM 0.01MF 5% 100V	
R743	1-202-719-00	SOLID	1M 10% 1/2W	C1565	1-108-622-91	MYLAR 0.0047MF 10% 100V	
R744	1-202-843-91	SOLID	270K 10% 1/2W	C1567	1-106-196-00	MYLAR 0.01MF 10% 100V	
R745	1-202-842-91	SOLID	220K 10% 1/2W	C1568	1-123-333-00	ELECT 100MF 20% 16V	
R746	1-202-824-00	SOLID	3.3K 10% 1/2W	C1569	1-108-630-91	MYLAR 0.022MF 10% 100V	
R747	1-202-824-00	SOLID	3.3K 10% 1/2W	C1570	1-106-196-00	MYLAR 0.01MF 10% 100V	
R748	1-202-824-00	SOLID	3.3K 10% 1/2W	C1571	1-108-614-91	MYLAR 0.001MF 10% 100V	
R751	1-247-833-00	CARBON	1.2K 5% 1/6W	C1573	1-123-380-00	ELECT 1MF 20% 50V	
R752	1-247-849-00	CARBON	5.6K 5% 1/6W	C1574	1-106-212-00	MYLAR 0.047MF 10% 100V	
R753	1-247-825-00	CARBON	560 5% 1/6W			CONNECTOR	
R754	1-249-434-11	CARBON	27K 5% 1/6W	D19	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
R755	1-247-807-00	CARBON	100 5% 1/6W			DIODE	
R756	1-249-419-11	CARBON	1.5K 5% 1/6W				
R757	1-247-807-00	CARBON	100 5% 1/6W	D1552	8-719-911-19	DIODE 1SS119	
R758	1-247-815-00	CARBON	220 5% 1/6W			IC	
R760	1-247-819-00	CARBON	330 5% 1/6W				
R761	1-249-429-11	CARBON	10K 5% 1/6W	IC1553	8-759-905-39	IC TDA1082	
R762	1-247-895-00	CARBON	470K 5% 1/6W			COIL	
R763	1-249-429-11	CARBON	10K 5% 1/6W	L1551	1-408-242-00	MICRO INDUCTOR 10MMH	
R764	1-246-981-00	CARBON	4.7 5% 1/8W F	L1552	1-408-247-00	MICRO INDUCTOR 33MMH	
R765	1-246-981-00	CARBON	4.7 5% 1/8W F	L1553	1-407-509-00	MICRO INDUCTOR 27MMH	
R766	1-247-833-00	CARBON	1.2K 5% 1/6W	L1554	1-408-245-00	MICRO INDUCTOR 22MMH	
R767	1-247-837-00	CARBON	1.8K 5% 1/6W			TRANSISTOR	
R768	1-216-449-11	METAL OXIDE	56 5% 2W F	Q1553	8-729-103-43	TRANSISTOR 2SB734	
R769	1-217-403-00	FUSIBLE	220 5% 1/4W F	Q1554	8-729-195-82	TRANSISTOR 2SC2958	
		VARIABLE RESISTOR					
RV701	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K					
RV702	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K					
RV741	1-226-157-11	RES, ADJ, METAL GLAZE 1M					

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
RESISTOR				CAPACITOR			
R1554	1-247-718-11	CARBON 2.7K 5% 1/4W		C001	1-123-307-00	ELECT 100MF 20% 10V	
R1555	1-247-815-00	CARBON 220 5% 1/6W		C002	1-123-381-00	ELECT 2.2MF 20% 50V	
R1556	1-247-161-00	CARBON 18K 5% 1/4W		C003	1-102-973-00	CERAMIC 100PF 5% 50V	
R1557	1-247-861-00	CARBON 18K 5% 1/6W		C004	1-108-603-00	MYLAR 0.1MF 5% 50V	
R1558	1-247-145-00	CARBON 3.9K 5% 1/4W		C005	1-123-356-00	ELECT 10MF 20% 50V	
R1559	1-246-486-00	CARBON 3.6K 5% 1/4W		C006	1-102-959-00	CERAMIC 22PF 5% 50V	
R1560	1-247-815-00	CARBON 220 5% 1/6W		C007	1-102-963-00	CERAMIC 33PF 5% 50V	
R1561	1-247-702-11	CARBON 150 5% 1/4W		C008	1-123-356-00	ELECT 10MF 20% 50V	
R1562	1-247-161-00	CARBON 18K 5% 1/4W		C009	1-102-114-00	CERAMIC 470PF 10% 50V	
R1563	1-247-787-00	CARBON 15 5% 1/6W		C010	1-123-369-00	ELECT 4.7MF 20% 25V	
R1564	1-249-429-11	CARBON 10K 5% 1/6W		C011	1-124-253-00	ELECT 0.47MF 20% 50V	
R1565	1-216-451-11	METAL OXIDE 120 5% 2W F		C012	1-101-004-00	CERAMIC 0.01MF 50V	
R1567	1-247-725-11	CARBON 10K 5% 1/4W		C015	1-123-381-00	ELECT 2.2MF 20% 50V	
R1568	1-247-809-00	CARBON 120 5% 1/6W		C016	1-101-810-00	CERAMIC 100PF 5% 500V	
R1569	1-216-423-11	METAL OXIDE 27 5% 1W F		C017	1-123-306-00	ELECT 47MF 20% 10V	
R1570	1-247-242-00	CARBON 1.2K 5% 1/2W		C017A	1-123-307-00	ELECT 100MF 20% 10V	
R1571	1-215-865-11	METAL OXIDE 220 5% 1W F		C018	1-106-220-00	MYLAR 0.1MF 10% 100V	
R1572	1-247-803-00	CARBON 68 5% 1/6W		C019	1-123-306-00	ELECT 47MF 20% 10V	
R1573	1-247-891-00	CARBON 330K 5% 1/6W		C020	1-102-112-00	CERAMIC 330PF 10% 50V	
R1575	1-247-109-00	CARBON 120 5% 1/4W		C022	1-161-377-00	CERAMIC 0.0047MF 20% 50V	
R1576	1-247-831-00	CARBON 1K 5% 1/6W		C026	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R1577	1-247-153-00	CARBON 8.2K 5% 1/4W		C201	1-102-114-00	CERAMIC 470PF 10% 50V	
R1578	1-247-895-00	CARBON 470K 5% 1/6W		C202	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R1579	1-249-434-11	CARBON 27K 5% 1/6W		C203	1-123-380-00	ELECT 1MF 20% 50V	
R1580	1-247-897-00	CARBON 560K 5% 1/6W		C204	1-102-114-00	CERAMIC 470PF 10% 50V	
R1583	1-247-171-00	CARBON 47K 5% 1/4W		C205	1-123-379-00	ELECT 0.47MF 20% 50V	
R1586	1-247-805-00	CARBON 82 5% 1/6W		C206	1-102-074-00	CERAMIC 0.001MF 10% 50V	
VARIABLE RESISTOR				C207	1-123-380-00	ELECT 1MF 20% 50V	
RV1551	1-226-771-00	RES, ADJ, METAL GLAZE 1K		C208	1-123-332-00	ELECT 47MF 20% 16V	
RV1552	1-228-719-00	RES, ADJ, CERAMIC CARBON 470		C209	1-106-212-00	MYLAR 0.047MF 10% 100V	
RV1553	1-228-720-00	RES, ADJ, CERAMIC CARBON 1K		C210	1-108-614-91	MYLAR 0.001MF 10% 100V	
RV1554	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K		C211	1-123-380-00	ELECT 1MF 20% 50V	
RV1555	1-228-718-00	RES, ADJ, CERAMIC CARBON 330		C212	1-123-369-00	ELECT 4.7MF 20% 50V	
RV1557	1-228-718-00	RES, ADJ, CERAMIC CARBON 330		C213	1-123-356-00	ELECT 10MF 20% 16V	
RV1559	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K		C214	1-123-356-00	ELECT 10MF 20% 16V	
RV1560	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K		C215	1-123-356-00	ELECT 10MF 20% 16V	
RV1561	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K		C216	1-123-356-00	ELECT 10MF 20% 16V	
RV1562	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K		C217	1-102-074-00	CERAMIC 0.001MF 10% 50V	
THERMISTOR				C218	1-106-208-00	MYLAR 0.033MF 10% 100V	
TH1551	1-800-625-00	THERMISTOR		C219	1-123-356-00	ELECT 10MF 20% 16V	
TH1552	1-806-110-00	THERMISTOR		C220	1-106-212-00	MYLAR 0.047MF 10% 100V	
*****				C221	1-108-614-91	MYLAR 0.001MF 10% 100V	
*A-1345-536-A	D BOARD, SUB, COMPLETE			C222	1-123-322-00	ELECT 330MF 20% 16V	
	*****			C223	1-123-380-00	ELECT 1MF 20% 50V	
4-303-483-00	HEAD, WASHER, TAPPING SCREW			C224	1-123-380-00	ELECT 1MF 20% 50V	
				C225	1-123-322-00	ELECT 330MF 20% 16V	
				C226	1-123-330-00	ELECT 22MF 20% 16V	
				C227	1-123-330-00	ELECT 22MF 20% 16V	
				C228	1-102-945-00	CERAMIC 8PF 1PF 50V	
				C229	1-102-108-00	CERAMIC 150PF 10% 50V	
				C230	1-106-208-00	MYLAR 0.033MF 10% 100V	

D

Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
C231	1-123-333-00	ELECT	100MF	20%	16V	C327	1-121-705-00	ELECT	2.2MF	30%	25V
C232	1-123-330-00	ELECT	22MF	20%	16V	C328	1-102-973-00	CERAMIC	100PF	5%	50V
C233	1-102-114-00	CERAMIC	470PF	10%	50V	C329	1-101-004-00	CERAMIC	0.01MF		50V
C234	1-123-379-00	ELECT	0.47MF	20%	50V	C331	1-161-330-00	CERAMIC	0.01MF	30%	25V
C235	1-123-330-00	ELECT	22MF	20%	16V	C332	1-101-880-00	CERAMIC	47PF	5%	50V
C236	1-102-114-00	CERAMIC	470PF	10%	50V	C333	1-123-356-00	ELECT	10MF	20%	16V
C237	1-123-379-00	ELECT	0.47MF	20%	50V	C334	1-123-356-00	ELECT	10MF	20%	16V
C238	1-108-603-00	MYLAR	0.1MF	5%	50V	C336	1-102-858-00	CERAMIC	10PF	0.5PF	50V
C239	1-108-603-00	MYLAR	0.1MF	5%	50V	C337	1-102-888-00	CERAMIC	150PF	5%	50V
C240	1-108-603-00	MYLAR	0.1MF	5%	50V	C338	1-102-884-00	CERAMIC	33PF	5%	50V
C241	1-123-333-00	ELECT	100MF	20%	16V	C339	1-102-959-00	CERAMIC	22PF	5%	50V
C243	1-123-332-00	ELECT	47MF	20%	16V	C340	1-102-945-00	CERAMIC	8PF	1PF	50V
C244	1-102-114-00	CERAMIC	470PF	10%	50V	C341	1-102-947-00	CERAMIC	10PF	5%	50V
C245	1-102-114-00	CERAMIC	470PF	10%	50V	C342	1-102-676-00	CERAMIC	68PF	5%	50V
C272	1-108-603-00	MYLAR	0.1MF	5%	50V	C343	1-102-973-00	CERAMIC	100PF	5%	50V
C273	1-123-359-00	ELECT	47MF	20%	50V	C344	1-123-379-00	ELECT	0.47MF	20%	50V
C274	1-123-364-00	ELECT	1000MF	20%	50V	C346	1-123-333-00	ELECT	100MF	20%	16V
C276	1-123-359-00	ELECT	47MF	20%	50V	C347	1-108-622-91	MYLAR	0.0047MF	10%	100V
C277	1-108-603-00	MYLAR	0.1MF	5%	50V	C348	1-123-379-00	ELECT	0.47MF	20%	50V
C278	1-123-349-00	ELECT	1000MF	20%	35V	C501	1-108-630-91	MYLAR	0.022MF	10%	100V
C279	1-123-343-00	ELECT	33MF	20%	25V	C502	1-136-171-00	FILM	0.33MF	5%	50V
C280	1-123-349-00	ELECT	1000MF	20%	35V	C503	1-136-171-00	FILM	0.33MF	5%	50V
C281	1-123-360-00	ELECT	100MF	20%	50V	C504	1-102-108-00	CERAMIC	150PF	10%	50V
C282	1-101-005-00	CERAMIC	0.022MF		50V	C505	1-123-380-00	ELECT	1MF	20%	50V
C283	1-101-005-00	CERAMIC	0.022MF		50V	C506	1-123-330-00	ELECT	22MF	20%	16V
C284	1-102-106-00	CERAMIC	100PF	10%	50V	C507	1-106-224-00	MYLAR	0.15MF	10%	100V
C285	1-102-106-00	CERAMIC	100PF	10%	50V	C508	1-123-356-00	ELECT	10MF	20%	16V
C288	1-108-630-91	MYLAR	0.022MF	10%	100V	C509	1-123-369-00	ELECT	4.7MF	20%	25V
C289	1-108-630-91	MYLAR	0.022MF	10%	100V	C510	1-123-323-00	ELECT	470MF	20%	16V
C290	1-123-343-00	ELECT	33MF	20%	25V	C511	1-123-379-00	ELECT	0.47MF	20%	50V
C291	1-123-343-00	ELECT	33MF	20%	25V	C512	1-106-220-00	MYLAR	0.1MF	10%	100V
C301	1-102-944-00	CERAMIC	7PF	1PF	50V	C513	1-130-023-00	FILM	0.0027MF	5%	50V
C302	1-102-944-00	CERAMIC	7PF	1PF	50V	C514	1-123-332-00	ELECT	47MF	20%	16V
C303	1-102-951-00	CERAMIC	15PF	5%	50V	C515	1-106-220-00	MYLAR	0.1MF	10%	100V
C304	1-102-816-00	CERAMIC	120PF	5%	50V	C516	1-123-357-00	ELECT	22MF	20%	50V
C308	1-123-356-00	ELECT	10MF	20%	16V	C517	1-102-030-00	CERAMIC	330PF	10%	500V
C309	1-123-380-00	ELECT	1MF	20%	50V	C518	1-129-742-00	FILM	0.018MF	10%	400V
C311	1-123-323-00	ELECT	470MF	20%	16V	C519	1-123-931-00	ELECT	3.3MF	20%	160V
C312	1-123-286-00	ELECT	0.33MF	20%	50V	C520	1-106-182-00	MYLAR	0.0027MF	10%	100V
C313	1-123-356-00	ELECT	10MF	20%	25V	C521	1-102-157-00	CERAMIC	560PF	10%	500V
C314	1-123-381-00	ELECT	2.2MF	20%	50V	C522	1-123-318-00	ELECT	33MF	20%	16V
C315	1-123-381-00	ELECT	2.2MF	20%	50V	C523	1-108-431-00	MYLAR	0.068MF	10%	200V
C316	1-108-622-91	MYLAR	0.0047MF	10%	100V	C524	1-123-380-00	ELECT	1MF	20%	50V
C317	1-108-630-91	MYLAR	0.022MF	10%	100V	C525	1-123-362-00	ELECT	330MF	20%	50V
C318	1-131-345-00	TANTALUM	0.47MF	10%	35V	C527	1-123-360-00	ELECT	100MF	20%	50V
C319	1-123-356-00	ELECT	10MF	20%	16V	C528	1-123-321-00	ELECT	220MF	20%	16V
C320	1-123-586-00	ELECT	0.1MF	20%	50V	C529	1-123-333-00	ELECT	100MF	20%	16V
C321	1-131-345-00	TANTALUM	0.47MF	10%	35V	C530	1-106-359-00	MYLAR	0.0047MF	10%	200V
C322	1-131-345-00	TANTALUM	0.47MF	10%	35V	C531	1-123-382-00	ELECT	33MF	20%	50V
C323	1-102-110-00	CERAMIC	220PF	10%	50V	C532	1-106-190-00	MYLAR	0.0056MF	10%	100V
C324	1-102-110-00	CERAMIC	220PF	10%	50V	C533	1-106-200-00	MYLAR	0.015MF	10%	100V
C325	1-136-173-00	FILM	0.47MF	5%	50V	C543	1-123-360-00	ELECT	100MF	20%	50V
C326	1-136-173-00	FILM	0.47MF	5%	50V	C545	1-123-379-00	ELECT	0.47MF	20%	50V

D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D802	8-719-300-65	DIODE ES1F		Q008	8-729-245-83	TRANSISTOR 2SC2458	
D803	8-719-924-06	DIODE ERC24-06S		Q009	8-729-245-83	TRANSISTOR 2SC2458	
D804	8-719-924-06	DIODE ERC24-06S		Q011	8-729-245-83	TRANSISTOR 2SC2458	
D805	8-719-931-13	DIODE EQB01-13		Q201	8-729-245-83	TRANSISTOR 2SC2458	
D806	8-719-305-15	DIODE GH3F		Q206	8-729-245-83	TRANSISTOR 2SC2458	
D807	8-719-305-15	DIODE GH3F		Q207	8-729-204-83	TRANSISTOR 2SA1048GR	
<u>DELAY LINE</u>				Q208	8-729-204-83	TRANSISTOR 2SA1048GR	
DL301	1-415-427-11	DELAY LINE, Y		Q301	8-729-245-83	TRANSISTOR 2SC2458	
DL302	1-415-122-31	DELAY LINE, 1H (PAL)		Q305	8-729-245-83	TRANSISTOR 2SC2458	
<u>IC</u>				Q309	8-729-245-83	TRANSISTOR 2SC2458	
IC001	8-759-602-63	IC CX523-113P		Q310	8-729-245-83	TRANSISTOR 2SC2458	
IC002	8-759-600-92	IC M58657P		Q311	8-729-245-83	TRANSISTOR 2SC2458	
IC201	8-759-914-76	IC CX20199		Q312	8-729-245-83	TRANSISTOR 2SC2458	
IC202	8-752-006-10	IC CX20061		Q313	8-729-245-83	TRANSISTOR 2SC2458	
IC251	8-749-943-62	IC STK-4362		Q502	8-729-204-83	TRANSISTOR 2SA1048GR	
*4-368-684-01		SPRING (L); IC251		Q504	8-729-204-83	TRANSISTOR 2SA1048GR	
IC301	6-066-720-60	IC TDA3562A		Q505	8-729-168-82	TRANSISTOR 2SC2688	
IC302	1-235-534-11	CONTROL MODULE, PICTURE		Q506	8-729-169-02	TRANSISTOR 2SC2690A	
IC551	8-759-915-46	IC TDA2579		*4-342-076-00		HEAT SINK, V.OUT; Q506	
*4-375-717-01		HEAT SINK, IC; IC551		Q507	8-729-122-02	TRANSISTOR 2SA1220A	
<u>COIL</u>				Q508	8-729-195-82	TRANSISTOR 2SC2958	
L001	1-408-425-00	MICRO INDUCTOR 220UH		Q510	8-729-245-83	TRANSISTOR 2SC2458	
L251	1-459-407-00	COIL, FERRITE CHOKE		Q511	8-729-245-83	TRANSISTOR 2SC2458	
L252	1-459-407-00	COIL, FERRITE CHOKE		Q512	8-729-900-36	TRANSISTOR DTC124ES	
L301	1-404-495-00	COIL		Q514	8-729-245-83	TRANSISTOR 2SC2458	
L302	1-408-412-00	MICRO INDUCTOR 18UH		Q551	8-729-177-43	TRANSISTOR 2SD774	
L304	1-408-408-00	MICRO INDUCTOR 8.2UH		Q552	8-729-374-02	TRANSISTOR 2SB740	
L306	1-410-260-11	MICRO INDUCTOR 33UH		Q802	8-729-300-90	TRANSISTOR 2SD1497-06	
L307	1-410-261-11	MICRO INDUCTOR 5.6UH		4-365-216-00		SPACER, MICA; Q802	
L308	1-408-415-00	MICRO INDUCTOR 33UH		*4-368-683-01		SPRING; Q802	
L310	1-407-705-00	MICRO INDUCTOR 100UH		Q803	8-719-801-06	THYRISTOR S6344G	
L801	1-407-365-00	COIL, CHOKE		4-365-216-00		SPACER, MICA; Q803	
L802	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)		*4-368-683-01		SPRING; Q803	
L803	1-459-224-00	HLC		<u>RESISTOR</u>			
L804	1-421-390-00	COIL, FERRITE (PMC)		R001	1-247-831-00	CARBON	1K 5% 1/6W
L805	1-408-239-00	MICRO INDUCTOR 4.7MMH		R002	1-247-831-00	CARBON	1K 5% 1/6W
L806	1-421-329-00	COIL, CHOKE		R003	1-247-831-00	CARBON	1K 5% 1/6W
L808	1-407-365-00	COIL, CHOKE		R004	1-247-815-00	CARBON	220 5% 1/6W
L809	1-437-090-00	HDT		R005	1-247-815-00	CARBON	220 5% 1/6W
L810	1-407-365-00	COIL, CHOKE		R006	1-247-815-00	CARBON	220 5% 1/6W
L811	1-459-074-00	COIL, DUST CORE 6.8MMH(HCC)		R007	1-247-815-00	CARBON	220 5% 1/6W
L891	1-459-338-00	COIL, VAR, FERRITE (PAC)		R008	1-247-815-00	CARBON	220 5% 1/6W
<u>TRANSISTOR</u>				R009	1-247-815-00	CARBON	220 5% 1/6W
Q001	8-729-204-83	TRANSISTOR 2SA1048GR		R010	1-247-815-00	CARBON	220 5% 1/6W
Q003	8-729-245-83	TRANSISTOR 2SC2458		R011	1-247-815-00	CARBON	220 5% 1/6W
Q004	8-729-245-83	TRANSISTOR 2SC2458		R012	1-247-799-00	CARBON	47 5% 1/6W
Q006	8-729-245-83	TRANSISTOR 2SC2458		R013	1-247-815-00	CARBON	220 5% 1/6W
Q007	8-729-603-50	TRANSISTOR 2SC403SP		R014	1-247-847-00	CARBON	4.7K 5% 1/6W
				R015	1-247-847-00	CARBON	4.7K 5% 1/6W
				R016	1-247-721-11	CARBON	4.7K 5% 1/4W
				R017	1-247-713-11	CARBON	1K 5% 1/4W
				R018	1-247-831-00	CARBON	1K 5% 1/6W

D

Ref.No.	Part No.	Description	Remark			Ref.No.	Part No.	Description	Remark		
R021	1-247-859-00	CARBON	15K	5%	1/6W	R221	1-247-708-11	CARBON	470	5%	1/4W
R022	1-247-859-00	CARBON	15K	5%	1/6W	R222	1-247-873-00	CARBON	56K	5%	1/6W
R023	1-247-807-00	CARBON	100	5%	1/6W	R228	1-247-873-00	CARBON	56K	5%	1/6W
R024	1-247-831-00	CARBON	1K	5%	1/6W	R229	1-247-823-00	CARBON	470	5%	1/6W
R025	1-247-863-00	CARBON	22K	5%	1/6W	R230	1-247-831-00	CARBON	1K	5%	1/6W
R026	1-247-859-00	CARBON	15K	5%	1/6W	R231	1-247-821-00	CARBON	390	5%	1/6W
R027	1-247-708-11	CARBON	470	5%	1/4W	R232	1-247-688-11	CARBON	10	5%	1/4W
R028	1-247-163-00	CARBON	22K	5%	1/4W	R233	1-247-823-00	CARBON	470	5%	1/6W
R029	1-247-863-00	CARBON	22K	5%	1/6W	R234	1-247-877-00	CARBON	82K	5%	1/6W
R030	1-247-163-00	CARBON	22K	5%	1/4W	R235	1-247-903-00	CARBON	1M	5%	1/6W
R031	1-247-163-00	CARBON	22K	5%	1/4W	R236	1-249-429-11	CARBON	10K	5%	1/6W
R032	1-247-863-00	CARBON	22K	5%	1/6W	R237	1-249-421-11	CARBON	2.2K	5%	1/6W
R033	1-247-863-00	CARBON	22K	5%	1/6W	R238	1-247-837-00	CARBON	1.8K	5%	1/6W
R034	1-247-863-00	CARBON	22K	5%	1/6W	R239	1-249-421-11	CARBON	2.2K	5%	1/6W
R035	1-247-863-00	CARBON	22K	5%	1/6W	R240	1-249-429-11	CARBON	10K	5%	1/6W
R037	1-247-831-00	CARBON	1K	5%	1/6W	R242	1-249-429-11	CARBON	10K	5%	1/6W
R038	1-247-841-00	CARBON	2.7K	5%	1/6W	R243	1-247-861-00	CARBON	18K	5%	1/6W
R039	1-247-807-00	CARBON	100	5%	1/6W	R244	1-249-460-11	CARBON	15K	5%	1/4W
R040	1-247-863-00	CARBON	22K	5%	1/6W	R245	1-249-437-11	CARBON	47K	5%	1/6W
R041	1-247-867-00	CARBON	33K	5%	1/6W	R247	1-247-137-00	CARBON	1.8K	5%	1/4W
R042	1-247-823-00	CARBON	470	5%	1/6W	R248	1-247-713-11	CARBON	1K	5%	1/4W
R043	1-247-823-00	CARBON	470	5%	1/6W	R249	1-247-137-00	CARBON	1.8K	5%	1/4W
R044	1-247-831-00	CARBON	1K	5%	1/6W	R251	1-247-807-00	CARBON	100	5%	1/6W
R045	1-247-713-11	CARBON	1K	5%	1/4W	R252	1-247-807-00	CARBON	100	5%	1/6W
R046	1-247-847-00	CARBON	4.7K	5%	1/6W	R253	1-247-807-00	CARBON	100	5%	1/6W
R047	1-247-807-00	CARBON	100	5%	1/6W	R254	1-247-807-00	CARBON	100	5%	1/6W
R048	1-249-437-11	CARBON	47K	5%	1/6W	R255	1-247-143-00	CARBON	3.3K	5%	1/4W
R049	1-216-464-11	METAL OXIDE	18K	5%	2W	R256	1-247-143-00	CARBON	3.3K	5%	1/4W
R050	1-217-387-00	FUSIBLE	10	5%	1/4W	R257	1-247-104-00	CARBON	75	5%	1/4W
R052	1-247-713-11	CARBON	1K	5%	1/4W	R278	1-217-387-00	FUSIBLE	10	5%	1/4W
R053	1-247-883-00	CARBON	150K	5%	1/6W	R279	1-217-387-00	FUSIBLE	10	5%	1/4W
R054	1-247-815-00	CARBON	220	5%	1/6W	R280	1-247-879-00	CARBON	100K	5%	1/6W
R056	1-247-859-00	CARBON	15K	5%	1/6W	R281	1-247-849-00	CARBON	5.6K	5%	1/6W
R057	1-249-429-11	CARBON	10K	5%	1/6W	R282	1-247-847-00	CARBON	4.7K	5%	1/6W
R060	1-247-825-00	CARBON	560	5%	1/6W	R283	1-247-713-11	CARBON	1K	5%	1/4W
R201	1-247-125-00	CARBON	560	5%	1/4W	R284	1-247-107-00	CARBON	100	5%	1/4W
R202	1-247-125-00	CARBON	560	5%	1/4W	R285	1-247-847-00	CARBON	4.7K	5%	1/6W
R203	1-247-721-11	CARBON	4.7K	5%	1/4W	R286	1-247-849-00	CARBON	5.6K	5%	1/6W
R204	1-247-721-11	CARBON	4.7K	5%	1/4W	R287	1-247-879-00	CARBON	100K	5%	1/6W
R205	1-247-153-00	CARBON	8.2K	5%	1/4W	R288	1-247-881-00	CARBON	120K	5%	1/6W
R206	1-247-869-00	CARBON	39K	5%	1/6W	R289	1-249-437-11	CARBON	47K	5%	1/6W
R207	1-247-143-00	CARBON	3.3K	5%	1/4W	R297	1-247-823-00	CARBON	470	5%	1/6W
R208	1-247-843-00	CARBON	3.3K	5%	1/6W	R298	1-247-823-00	CARBON	470	5%	1/6W
R209	1-249-429-11	CARBON	10K	5%	1/6W	R301	1-247-135-00	CARBON	1.5K	5%	1/4W
R210	1-249-429-11	CARBON	10K	5%	1/6W	R302	1-249-419-11	CARBON	1.5K	5%	1/6W
R211	1-247-135-00	CARBON	1.5K	5%	1/4W	R303	1-247-816-00	CARBON	240	5%	1/6W
R213	1-247-895-00	CARBON	470K	5%	1/6W	R304	1-249-429-11	CARBON	10K	5%	1/6W
R214	1-249-419-11	CARBON	1.5K	5%	1/6W	R305	1-247-823-00	CARBON	470	5%	1/6W
R216	1-249-429-11	CARBON	10K	5%	1/6W	R306	1-247-823-00	CARBON	470	5%	1/6W
R217	1-247-831-00	CARBON	1K	5%	1/6W	R307	1-247-827-00	CARBON	680	5%	1/6W
R218	1-247-887-00	CARBON	220K	5%	1/6W	R308	1-247-847-00	CARBON	4.7K	5%	1/6W
R219	1-247-887-00	CARBON	220K	5%	1/6W	R319	1-247-713-11	CARBON	1K	5%	1/4W
R220	1-247-104-00	CARBON	75	5%	1/4W	R323	1-247-837-00	CARBON	1.8K	5%	1/6W

D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R324	1-247-825-00	CARBON	560 5% 1/6W	R505	1-247-843-00	CARBON	3.3K 5% 1/6W
R325	1-246-463-00	CARBON	390 5% 1/4W	R506	1-247-833-00	CARBON	1.2K 5% 1/6W
R326	1-247-877-00	CARBON	82K 5% 1/6W	R507	1-247-831-00	CARBON	1K 5% 1/6W
R332	1-247-825-00	CARBON	560 5% 1/6W	R508	1-215-469-00	METAL	100K 1% 1/6W
R333	1-247-849-00	CARBON	5.6K 5% 1/6W	R509	1-215-475-00	METAL	180K 1% 1/6W
R334	1-247-151-00	CARBON	6.8K 5% 1/4W	R510	1-247-851-00	CARBON	6.8K 5% 1/6W
R335	1-249-437-11	CARBON	47K 5% 1/6W	R511	1-247-805-00	CARBON	82 5% 1/6W
R336	1-249-429-11	CARBON	10K 5% 1/6W	R512	1-247-829-00	CARBON	820 5% 1/6W
R337	1-249-429-11	CARBON	10K 5% 1/6W	R513	1-247-857-00	CARBON	12K 5% 1/6W
R338	1-247-831-00	CARBON	1K 5% 1/6W	R514	1-247-831-00	CARBON	1K 5% 1/6W
R339	1-247-831-00	CARBON	1K 5% 1/6W	R515	1-247-700-11	CARBON	100 5% 1/4W
R340	1-247-821-00	CARBON	390 5% 1/6W	R516	1-247-717-11	CARBON	2.2K 5% 1/4W
R341	1-247-821-00	CARBON	390 5% 1/6W	R517	1-246-511-00	CARBON	39K 5% 1/4W
R342	1-247-903-00	CARBON	1M 5% 1/6W	R520	1-214-765-00	METAL	33K 1% 1/4W
R343	1-247-879-00	CARBON	100K 5% 1/6W	R521	1-216-464-11	METAL OXIDE	18K 5% 2W F
R344	1-247-149-00	CARBON	5.6K 5% 1/4W	R522	1-247-885-00	CARBON	180K 5% 1/6W
R345	1-247-882-00	CARBON	130K 5% 1/6W	R523	1-247-807-00	CARBON	100 5% 1/8W F
R347	1-247-825-00	CARBON	560 5% 1/6W	R524	1-215-869-11	METAL OXIDE	1K 5% 1W F
R348	1-247-827-00	CARBON	680 5% 1/6W	R525	1-247-795-00	CARBON	33 5% 1/8W F
R349	1-247-849-00	CARBON	5.6K 5% 1/6W	R526	1-249-421-11	CARBON	2.2K 5% 1/6W
R350	1-247-853-00	CARBON	8.2K 5% 1/6W	R527	1-247-783-00	CARBON	10 5% 1/8W F
R351	1-247-863-00	CARBON	22K 5% 1/6W	R528	1-247-161-00	CARBON	18K 5% 1/4W
R352	1-247-837-00	CARBON	1.8K 5% 1/6W	R529	1-247-127-00	CARBON	680 5% 1/4W
R353	1-247-843-00	CARBON	3.3K 5% 1/6W	R530	1-247-892-00	CARBON	360K 5% 1/6W
R354	1-247-883-00	CARBON	150K 5% 1/6W	R531	1-246-463-00	CARBON	390 5% 1/4W
R356	1-247-857-00	CARBON	12K 5% 1/6W	R532	1-247-143-00	CARBON	3.3K 5% 1/4W
R357	1-247-849-00	CARBON	5.6K 5% 1/6W	R533	1-247-859-00	CARBON	15K 5% 1/6W
R358	1-247-861-00	CARBON	18K 5% 1/6W	R534	1-247-787-00	CARBON	15 5% 1/6W
R359	1-247-859-00	CARBON	15K 5% 1/6W	R535	1-247-783-00	CARBON	10 5% 1/6W
R360	1-246-517-00	CARBON	68K 5% 1/4W	R536	1-216-354-11	METAL OXIDE	2.7 5% 1W F
R362	1-247-717-11	CARBON	2.2K 5% 1/4W	R537	1-247-879-00	CARBON	100K 5% 1/6W
R364	1-249-421-11	CARBON	2.2K 5% 1/6W	R538	1-247-753-11	CARBON	1.2K 5% 1/2W F
R365	1-247-857-00	CARBON	12K 5% 1/6W	R539	1-247-877-00	CARBON	82K 5% 1/6W
R366	1-247-717-11	CARBON	2.2K 5% 1/4W	R540	1-246-507-00	CARBON	27K 5% 1/4W
R367	1-247-815-00	CARBON	220 5% 1/6W	R541	1-247-823-00	CARBON	470 5% 1/6W
R368	1-247-815-00	CARBON	220 5% 1/6W	R542	1-216-435-11	METAL OXIDE	2.7K 5% 1W F
R369	1-247-815-00	CARBON	220 5% 1/6W	R544	1-202-467-92	SOLID	3.3M 10% 1/4W
R370	1-247-708-11	CARBON	470 5% 1/4W	R547	1-212-990-00	FUSIBLE	220 5% 1/2W F
R371	1-247-807-00	CARBON	100 5% 1/6W	R548	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R373	1-247-713-11	CARBON	1K 5% 1/4W	R549	1-247-807-00	CARBON	100 5% 1/8W F
R376	1-246-507-00	CARBON	27K 5% 1/4W	R550	1-246-537-00	CARBON	470K 5% 1/4W
R377	1-246-507-00	CARBON	27K 5% 1/4W	R551	1-217-383-00	FUSIBLE	4.7 5% 1/4W F
R378	1-247-861-00	CARBON	18K 5% 1/6W	R552	1-217-383-00	FUSIBLE	4.7 5% 1/4W F
R379	1-247-864-00	CARBON	24K 5% 1/6W	R553	1-210-859-00	CARBON	1.2 5% 1/8W F
R380	1-247-877-00	CARBON	82K 5% 1/6W	R554	1-247-847-00	CARBON	4.7K 5% 1/6W
R381	1-247-831-00	CARBON	1K 5% 1/6W	R555	1-249-421-11	CARBON	2.2K 5% 1/6W
R382	1-247-831-00	CARBON	1K 5% 1/6W	R556	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R383	1-247-831-00	CARBON	1K 5% 1/6W	R557	1-247-815-00	CARBON	220 5% 1/6W
R385	1-247-841-00	CARBON	2.7K 5% 1/6W	R558	1-247-895-00	CARBON	470K 5% 1/6W
R386	1-247-841-00	CARBON	2.7K 5% 1/6W	R559	1-247-143-00	CARBON	3.3K 5% 1/4W
R387	1-247-841-00	CARBON	2.7K 5% 1/6W	R560	1-249-421-11	CARBON	2.2K 5% 1/6W
R390	1-247-173-00	CARBON	56K 5% 1/4W	R571	1-247-895-00	CARBON	470K 5% 1/6W
R504	1-247-841-00	CARBON	2.7K 5% 1/6W	R572	1-247-879-00	CARBON	100K 5% 1/6W

D J1 H1

Ref.No.	Part No.	Description	Remark
R573	1-247-903-00	CARBON 1M 5% 1/6W	
R574	1-247-903-00	CARBON 1M 5% 1/6W	
R575	1-247-177-00	CARBON 82K 5% 1/4W	
R578	1-247-704-11	CARBON 220 5% 1/4W	
R580	1-210-819-00	SOLID 1.8M 10% 1/4W	
R591	1-247-725-11	CARBON 10K 5% 1/4W	
R592	1-247-153-00	CARBON 8.2K 5% 1/4W	
R593	1-247-847-00	CARBON 4.7K 5% 1/6W	
R594	1-247-863-00	CARBON 22K 5% 1/6W	
R595	1-247-857-00	CARBON 12K 5% 1/6W	
R596	1-247-843-00	CARBON 3.3K 5% 1/6W	
R597	1-247-145-00	CARBON 3.9K 5% 1/4W	
R598	1-247-849-00	CARBON 5.6K 5% 1/6W	
R599	1-247-815-00	CARBON 220 5% 1/6W	
R800	1-215-886-11	METAL OXIDE 100 5% 2W F	
R801	1-216-345-11	METAL OXIDE 0.47 5% 1W F	
R802	1-247-137-00	CARBON 1.8K 5% 1/4W	
R803	1-247-803-00	CARBON 68 5% 1/6W	
R804	1-215-871-11	METAL OXIDE 2.2K 5% 1W F	
R805	1-215-866-11	METAL OXIDE 330 5% 1W F	
R806	1-202-838-00	SOLID 100K 10% 1/2W	
R807	1-202-818-00	SOLID 1K 10% 1/2W	
R808	1-202-826-00	SOLID 4.7K 10% 1/2W	
R809	1-244-927-00	CARBON 180K 5% 1/2W	
R810	1-210-859-00	CARBON 1.2 5% 1/8W F	
R811	1-249-448-11	CARBON 1.2 5% 1/4W F	
R812	1-247-270-00	CARBON 18K 5% 1/2W	
R813	1-215-883-11	METAL OXIDE 33 5% 2W F	
R814	1-246-537-00	CARBON 470K 5% 1/4W	
R817	1-216-379-11	METAL OXIDE 6.8 5% 2W F	
R820	1-215-884-11	METAL OXIDE 47 5% 2W F	
R825	1-207-678-00	WIREWOUND 10 10% 5W F	
R826	1-207-678-00	WIREWOUND 10 10% 5W F	
VARIABLE RESISTOR			
RV301	1-228-720-00	RES, ADJ, CERAMIC CARBON 1K	
RV302	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV303	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K	
RV501	1-226-776-00	RES, ADJ, METAL GLAZE 220K	
RV502	1-226-775-00	RES, ADJ, METAL GLAZE 100K	
RV503	1-230-522-11	RES, ADJ, METAL GLAZE 4.7K	
RV558	1-228-720-00	RES, ADJ, CERAMIC CARBON 1K	
SPARK GAP			
SG801	1-519-063-XX	DISCHARGING GAP	
TRANSFORMER			
T301	1-426-121-00	DAT	
T801	1-437-090-00	HDT	
T802	1-439-332-41	TRANSFORMER ASSY, FLYBACK	
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)	
T891	1-421-245-11	TRANSFORMER, PZN CUSHION	

Ref.No.	Part No.	Description	Remark
THERMISTOR			
TH501	1-806-213-00	THERMISTOR	
CRYSTAL			
X301	1-527-789-00	VINRATOR, CRYSTAL	

	*1-615-566-11	J1 BOARD	*****
JACK			
CN901	1-507-657-00	JACK (LARGE TYPE)	
CONNECTOR			
J1	*1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	
RESISTOR			
R901	1-247-708-11	CARBON 470 5% 1/4W	
R902	1-247-708-11	CARBON 470 5% 1/4W	

	*1-612-976-21	H1 BOARD	*****
CAPACITOR			
C401	1-123-617-00	ELECT 10MF 20% 16V	
C403	1-123-616-00	ELECT 4.7MF 20% 25V	
DIODE			
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-911-19	DIODE 1SS119	
D404	8-719-911-19	DIODE 1SS119	
D405	8-719-911-19	DIODE 1SS119	
D406	8-719-911-19	DIODE 1SS119	
D407	8-719-911-19	DIODE 1SS119	
D409	8-719-911-19	DIODE 1SS119	
CONNECTOR			
H4	*1-560-278-00	PLUG, CONNECTOR 9P	
H5	*1-560-278-00	PLUG, CONNECTOR 6P	
H6	*1-560-278-00	PLUG, CONNECTOR 8P	
RESISTOR			
R401	1-247-847-00	CARBON 4.7K 5% 1/6W	
R402	1-247-847-00	CARBON 4.7K 5% 1/6W	
R405	1-247-849-00	CARBON 5.6K 5% 1/6W	
R406	1-247-849-00	CARBON 5.6K 5% 1/6W	

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

H1

H2

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
VARIABLE RESISTOR				RV902	1-215-066-21	RES ASSY, HIGH-VOLTAGE	
RV401	1-228-578-00	RES, VAR, CARBON 10K		S901	1-554-762-11	SWITCH, PUSH (AC POWER)(1 KEY)	
RV402	1-228-578-00	RES, VAR, CARBON 10K		SP901	1-503-417-11	SPEAKER	
RV403	1-228-578-00	RES, VAR, CARBON 10K		SP902	1-503-314-11	SPEAKER	
RV404	1-228-578-00	RES, VAR, CARBON 10K		V901	8-736-752-05	CRT (A64JKB00X)	
SWITCH				*****			
SW401	1-554-118-00	SWITCH, PUSH (1 KEY)		ACCESSORIES AND PACKING MATERIALS			
SW407	1-553-329-00	SWITCH, PUSH (MONO KEY)		*****			
SW408	1-553-329-00	SWITCH, PUSH (MONO KEY)		Part No.	Description	Remark	
SW411	1-553-329-00	SWITCH, PUSH (MONO KEY)		A-1470-625-A	COMMANDER ASSY (RM-635)		
SW412	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-337-844-00	BAG, PROTECTION		
SW413	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-373-239-01	CUSHION (UPPER) (ASSY)		
SW414	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-373-243-01	CUSHION (LOWER)		
SW415	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-373-258-01	INDIVIDUAL CARTON		
SW416	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-482-107-11	MANUAL, INSTRUCTION		
SW417	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-491-800-02	SCHEMATIC DIAGRAM		
SW418	1-553-329-00	SWITCH, PUSH (MONO KEY)					
SW419	1-553-329-00	SWITCH, PUSH (MONO KEY)					

*1-612-977-21	H2 BOARD	*****					
*4-373-201-01	COVER, LED HOLDER						
*4-373-202-01	HOLDER, LED						
DIODE							
LED401	8-719-908-08	DIODE SL-1274					
*1-526-638-00	SOCKET, IC (9P); LED401						
LED402	8-719-903-11	DIODE GL-9PR24					
LED404	8-719-903-11	DIODE GL-9PR24					
LED405	8-719-903-11	DIODE GL-9PR24					
LED406	8-719-903-11	DIODE GL-9PR24					
RESISTOR							
R407	1-247-813-00	CARBON	180 5% 1/6W				
R412	1-247-813-00	CARBON	180 5% 1/6W				

MISCELLANEOUS							

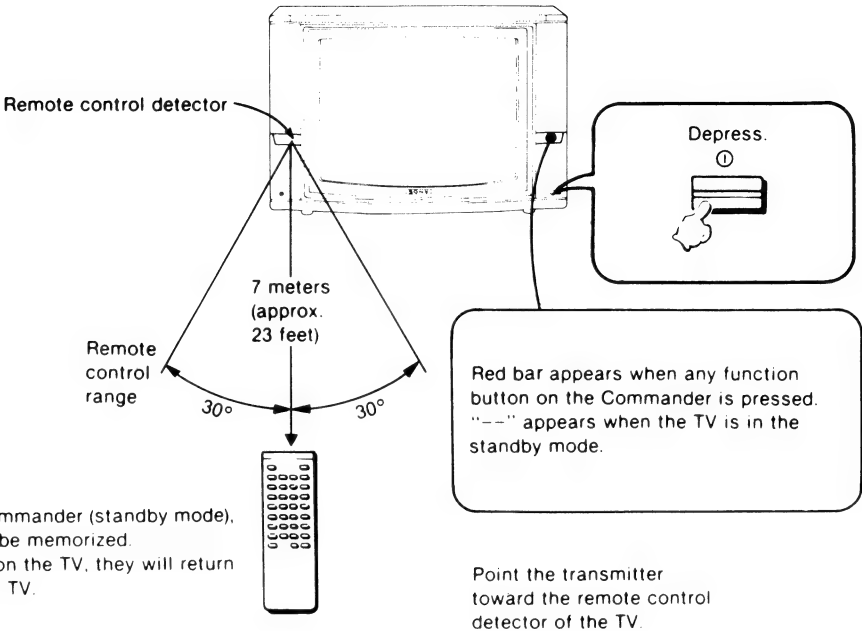
A.1-426-041-21	COIL, DEGAUSSING						
A.1-451-156-51	DEFLECTION YOKE (SY-105)						
1-452-032-00	MAGNET, DISK; 10MM ϕ						
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ						
1-452-146-21	MAGNET, BMC						
A.1-452-315-11	CRT NECK ASSY (NA303)						
A.1-536-817-31	TERMINAL BOARD ASSY, ANTENNA						
A.1-551-270-31	CORD, POWER						
RV901	1-228-544-11	RESISTOR ASSY, HIGH-VOLTAGE					

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

SECTION 5

REMOTE COMMANDER

5-1. REMOTE TV OPERATION



If the TV is turned off with the Remote Commander (standby mode), the picture, color and sound settings will be memorized.
If the TV is turned off with the ① switch on the TV, they will return to the levels fixed with the controls of the TV.

FUNCTION OF THE BUTTONS ON THE REMOTE COMMANDER

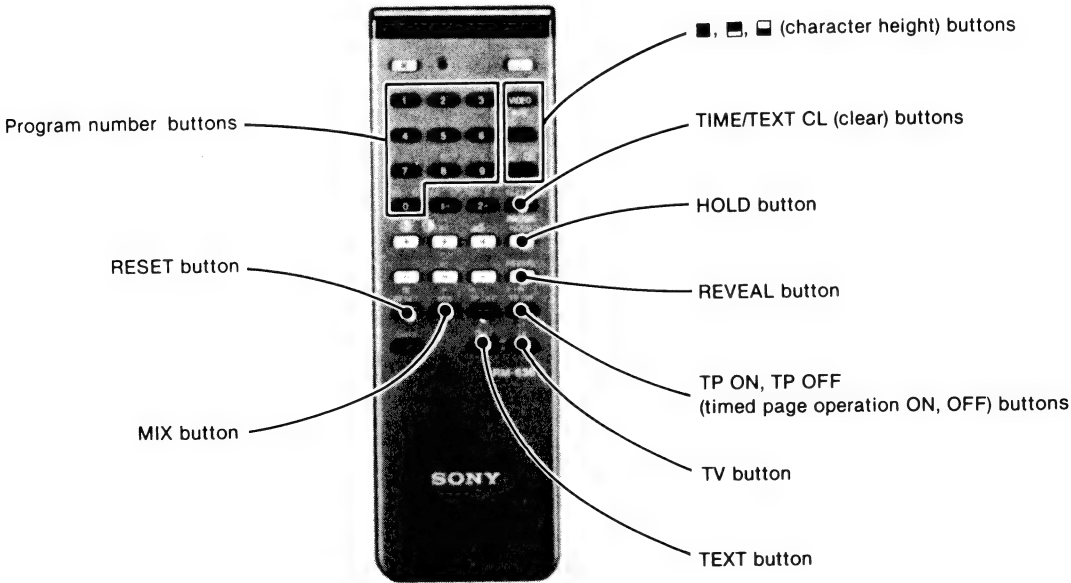
Each button has different functions for normal TV, teletext and VTR operations.
Functions for operating the TV are indicated in **white or black**.
Functions for operating the video tape recorder* are indicated in **brown**.

Buttons used for teletext operations

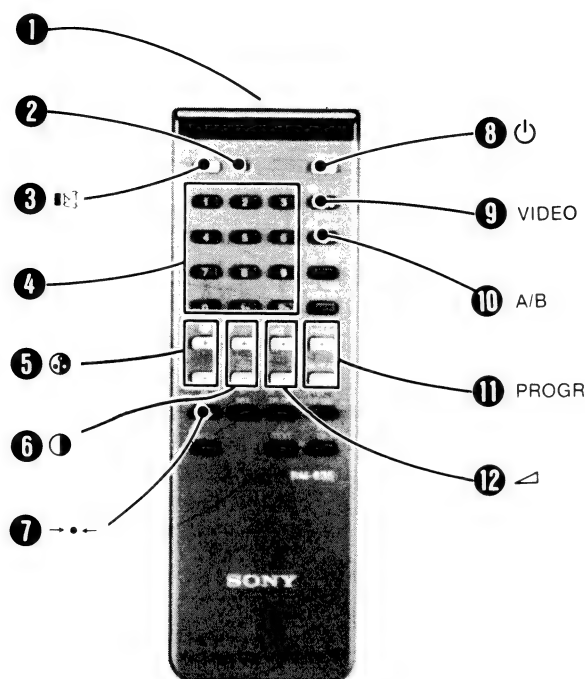
The following functions are for operating the TV as a teletext display by installing the optional Sony OPK-203 teletext adaptor. For details, please consult a dealer prepared to install a teletext adaptor.

Functions for teletext operation using the optional OPK-203 teletext adaptor are indicated in **green**.

* This Remote Commander can control the Sony SL-F1E combined with the TT-F1 series tuner timer unit, and Sony SL-C9 series.



Buttons used for normal TV operation



1 Transmitter

Point towards the remote control detector.

2 Pilot lamp

Lights when any button on the Remote Commander is pressed. If the lamp does not light when the button is pressed, battery replacement is required.

3 (sound mute) button

When you want to mute the sound (to answer the telephone, for instance), press this button. To restore the sound, press this button again.

4 Program number buttons

Programs are displayed by pressing the corresponding numbers. For programs 1 through 9, press the appropriate single-digit button.

For programs 10 through 19, press the [1] button (the tens-digit "1" will blink on the program indicator), then the button corresponding to the last digit of the program number (the tens-digit will now stop blinking). For example:

for program 10, press [1] and [0].

for program 11, press [1] and [1].

For programs 20 to 29, press the [2] button and then the single-digit button.

For program 30, press the [0] button.

Note: If you do not press a single-digit button within several seconds after pressing the [1] or [2] button, the previous program setting will be automatically recalled.

5 (color) buttons

Adjust the color intensity. Press the + button to increase it, or the - button to decrease it.

6 (picture) buttons

Press the + button to increase the picture contrast, or the - button to decrease it.

7 (normal) button

Press this button once instantly returns the color and contrast settings made with the [6] and [5] buttons on the Commander to the factory preset levels.

8 (standby) switch

Turns the TV in standby mode. Program indicator will show "--". To turn on the TV from the standby mode, press a program number button or [7] button on the Commander.

9 VIDEO button

This button is not usable for this TV. When this button is pressed, "AU" will momentarily light in the program indicator, but will immediately disappear.

10 A/B button

This button is not usable for this TV.

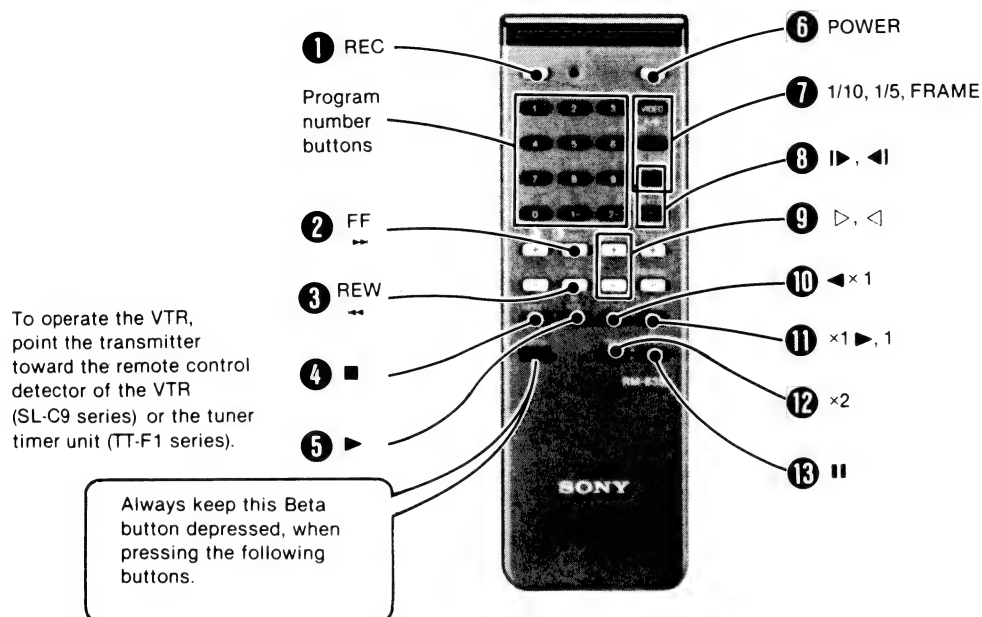
11 PROGR (program) buttons

Function the same as the PROGR buttons on the TV.

12 (volume) buttons

Press the + button to increase the volume, or the - button to decrease it.

Buttons used for VTR operations



Buttons which have the same functions for both SL-C9 series and SL-F1E

1 REC (record) button

Press to start recording.

2 FF (fast-forward) button

Press to advance the tape rapidly. This button is also used for the forward picture-search operation.

3 REW (rewind) button

Press to rewind the tape. This button is also used for the reverse picture-search operation.

4 ■ (stop) button

Press to stop the tape.

5 ► (play) button

Press to play the tape back.

6 POWER switch

Press to turn the video tape recorder (and the tuner timer unit) on or off.

12 x2 (double-speed) button

Functions the same as the x2 button on the video tape recorder. Press to obtain a double-speed playback picture.

13 || (pause) button

Functions the same as the || PAUSE button on the SL-C9 series and the PAUSE button on the SL-F1E. To release the pause mode, press this button again.

Buttons used for the SL-C9 series

7 Speed control buttons (1/10, 1/5, FRAME)

Function the same as the 1/10, 1/5 and FRAME of the SPEED CONTROL buttons on the recorder.

9 ► (forward) and ◀ (reverse) buttons

Select the direction of the speed control playback. Function the same as the ► and ◀ buttons of the SPEED CONTROL buttons on the recorder.

10 1 (normal speed) button

Functions the same as the 1 button of the SPEED CONTROL buttons on the recorder.

Buttons used for the SL-F1E

8 ► (forward slow motion) and ◀ (reverse slow motion) buttons

Function the same as the ► and ◀ SWING SEARCH buttons on the SL-F1E.

10 ◀ x1 (reverse) button and

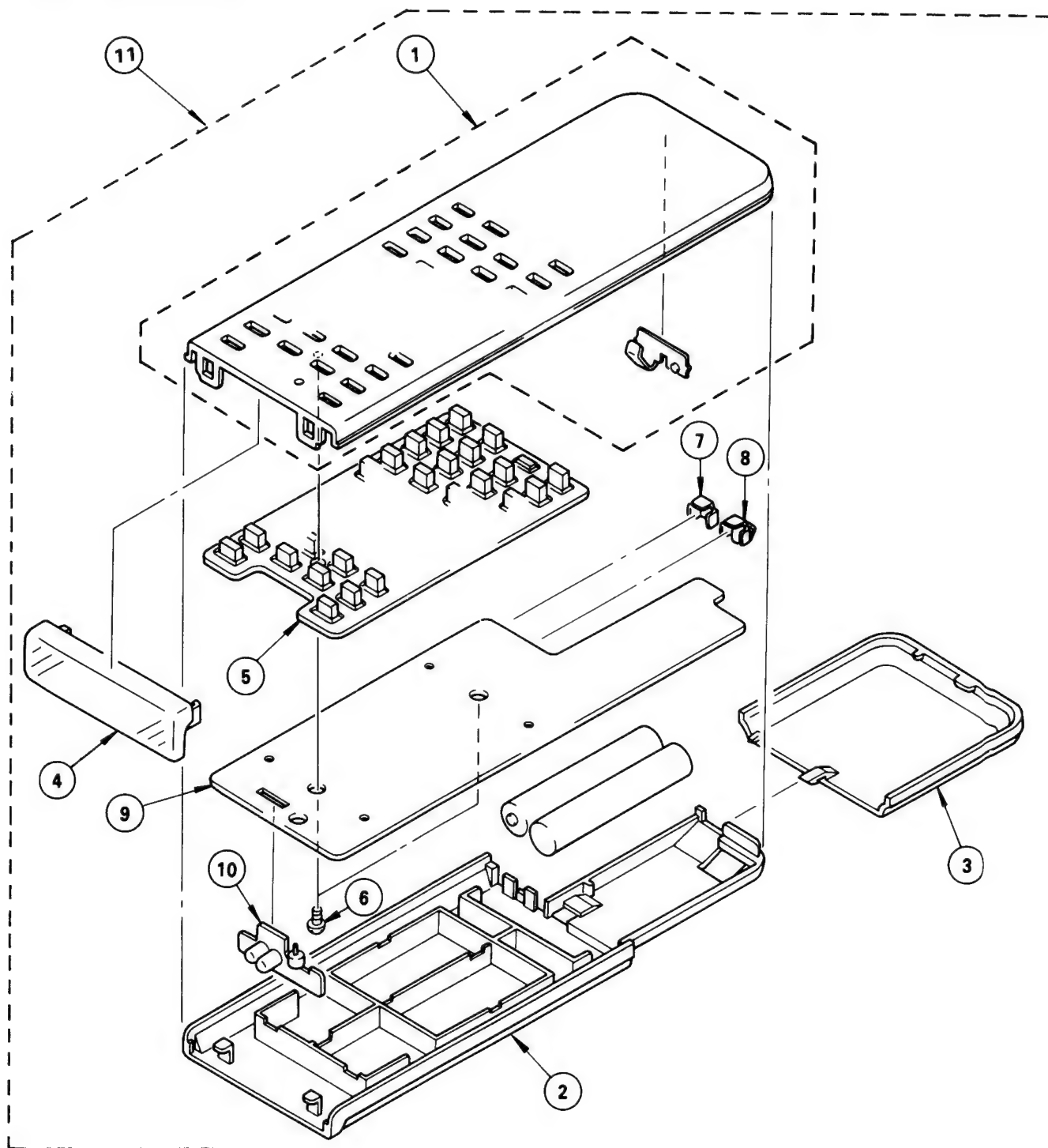
11 x1 ► (forward) button

Function the same as the ◀ and ► SWING SEARCH buttons on the SL-F1E.

5-2. EXPLODED VIEW

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4362-211-0	CASE (UPPER) ASSY, COMMANDER		6	4-356-741-00	SCREW, TAPPING (BIND 2X5)	
2	4-361-948-00	CASE (LOWER), COMMANDER		7	4-348-542-00	TERMINAL (A), BATTERY	
3	4-361-945-00	COVER, BATTERY		8	4-348-543-00	TERMINAL (B), BATTERY	
4	4-361-943-00	PANEL, FRONT, COMMANDER		9	*:1-614-569-11	R1 BOARD	
5	4-361-944-21	SHEET, RUBBER		10	*:1-614-570-11	R2 BOARD	
				11	A-1470-625-A	COMMANDER ASSY (RM-635)	

1~10

R1

R2

5-3. ELECTRICAL PARTS LIST

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS

- MF : μ F, PF : $\mu\mu$ F

RESISTORS

- All resistors are in ohms
- F : nonflammable

Ref.No.	Part No.	Description	Remark
	*1-614-569-11	R1 BOARD *****	
	4-348-542-00	TERMINAL (A), BATTERY	
	4-348-543-00	TERMINAL (B), BATTERY	
		<u>CAPACITOR</u>	
C1	1-161-315-00	CERAMIC 220PF 10% 50V	
C2	1-161-315-00	CERAMIC 220PF 10% 50V	
		<u>FILTER</u>	
CF1	1-527-476-00	OSCILLATOR, CERAMIC	
		<u>IC</u>	
IC1	8-759-600-07	IC M50119P	
		<u>TRANSISTOR</u>	
Q1	8-729-378-84	TRANSISTOR 2SD788	

	*1-614-570-11	R2 BOARD *****	
		<u>DIODE</u>	
D1	8-719-900-23	DIODE GL-2AR1	
D2	8-719-107-82	DIODE SE303AY	
		<u>RESISTOR</u>	
R2	1-247-791-00	CARBON 22 5% 1/6W	
R3	1-247-767-00	CARBON 2.2 5% 1/6W	

SONY

TRINITRON® COLOR TV


KV-2764EC/RM-635

Belgium Model








Chassis No. SCC-660G-A

RX CHASSIS

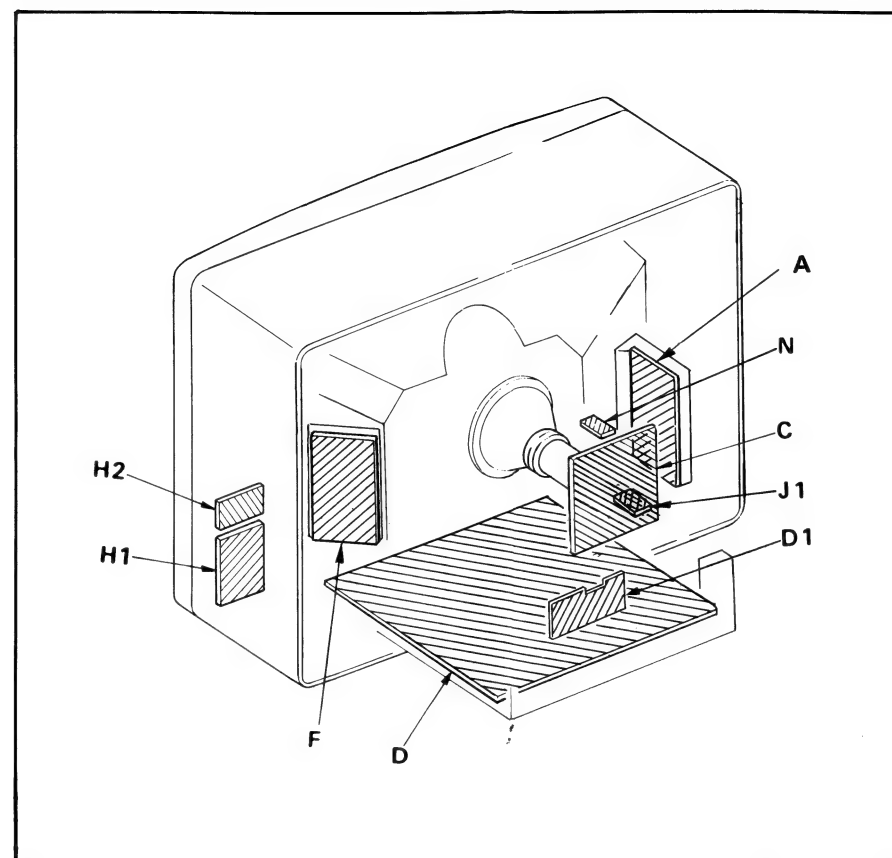
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

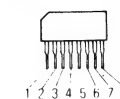
- All capacitors are in μF unless otherwise noted. p: μpF . 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
-  : nonflammable resistor.
-  : fusible resistor
- Δ : internal component.
-  : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Voltages are dc with respect to ground unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M Ω digital multimeter.
-  : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
-  : B + bus.
-  : B - bus.
-  : signal path.

CIRCUIT BOARDS LOCATION

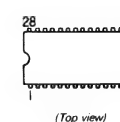


SEMICONDUCTORS

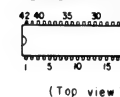
CX20061
CX20106
M54572L



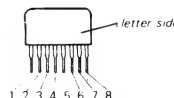
CX20199



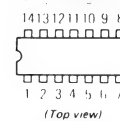
CX523-113P



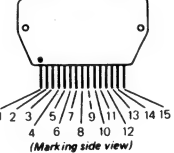
HIC2110



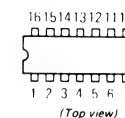
M58657P
TDA4944
 $\mu\text{PC1394C}$



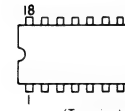
STK4362



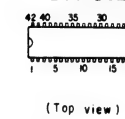
TDA1082
TDA3541



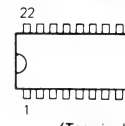
TDA2546
TDA2579



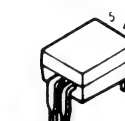
TDA3562A



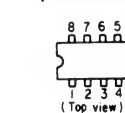
TDA4940



TLP581



$\mu\text{PC4558C}$



2SA1048-GR
2SC403SP
2SC2458
DTC124ES
DTC144ES



2SA1091
2SB740
2SC2551



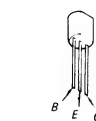
2SA1220A
2SC2611
2SC2688
2SC2690A



2SC403



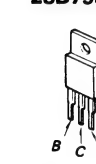
2SC2026-L



2SC2958
2SD774



2SD795A



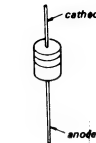
2SD1497-02
2SD1497-06



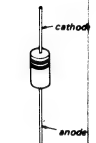
S6344G



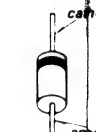
ISS119



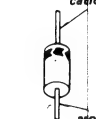
EQBO1-13



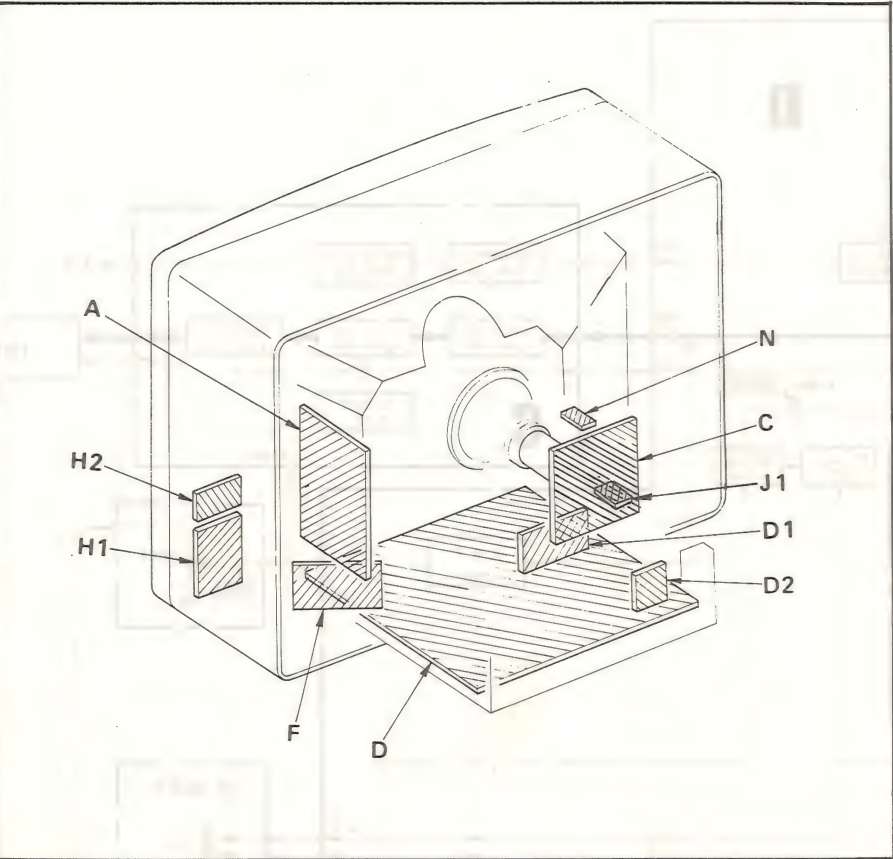
ERD28-08
RD12E-B2
RD13E-B2
RD30E-B4
RD5,6E-B2
RD6,2E-N2
RD6,8E-N3
RD7,5E-B2




ERD29-08









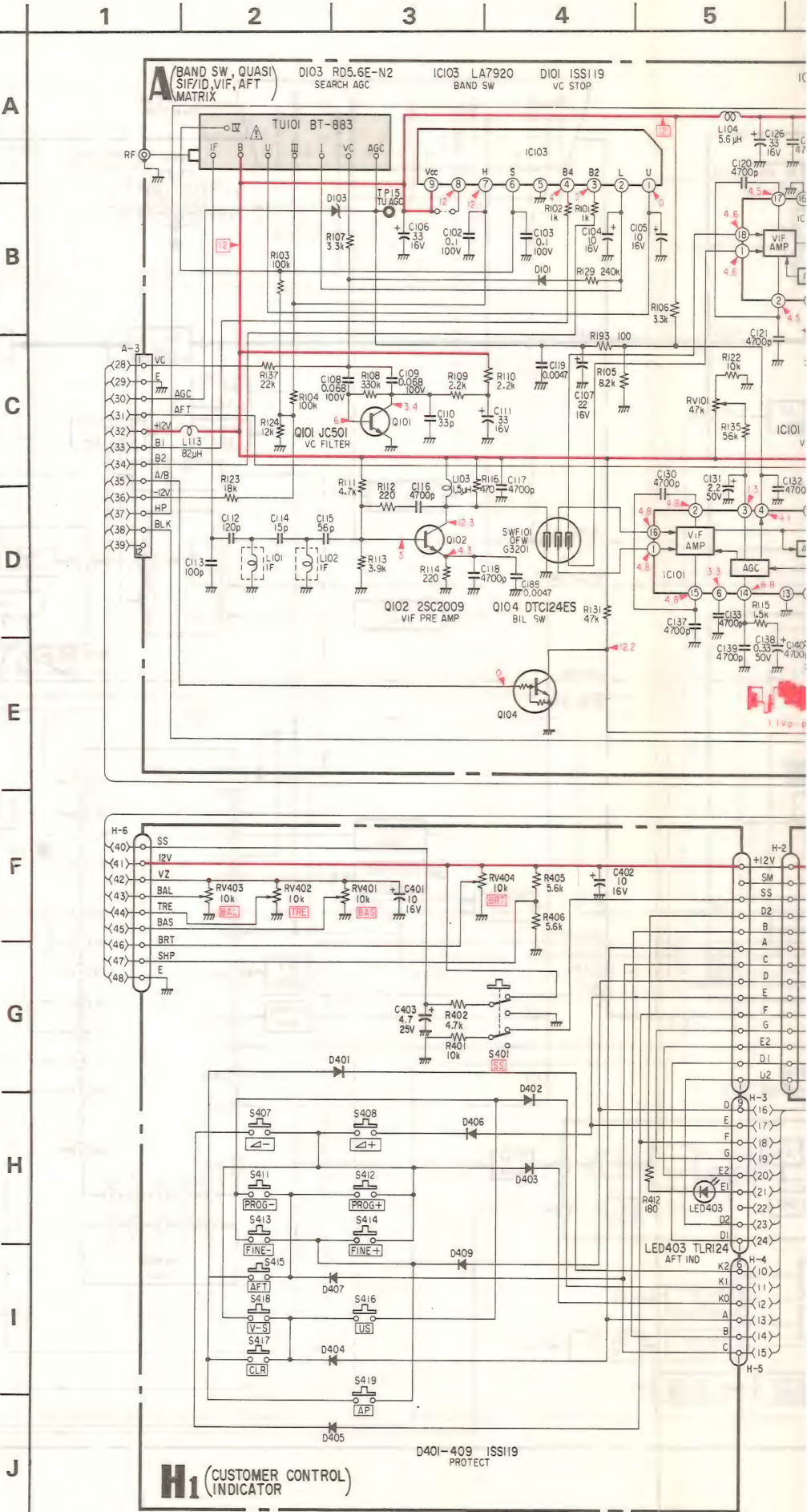
5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

- Note:
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics
 - C board and D board resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted, and other boards are in ohms, $\frac{1}{6}$ W unless otherwise noted. k : 1000 Ω ; M : 1000 k Ω
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 -  : nonflammable resistor.
 -  : fusible resistor.
 -  : internal component.
 -  : adjustment for repair.
 - All voltage are in V.
 -  : B+ bus.
 -  : B- bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken with a 10 M Ω digital multimeter.
 - Readings are taken with a color-bar signal input.
 - Voltages on A and H₁ boards are taken under conditions below.
 - The channel 2 is selected.
 - VOLUME control is set to no sound position.
 - PICTURE control is set to the first stage. (The first stage is the condition when the POWER switch sets to ON.)
 - Waveform on A board is taken with controls set to the first stage.
 - Voltage variations may be noted due to normal production tolerances.



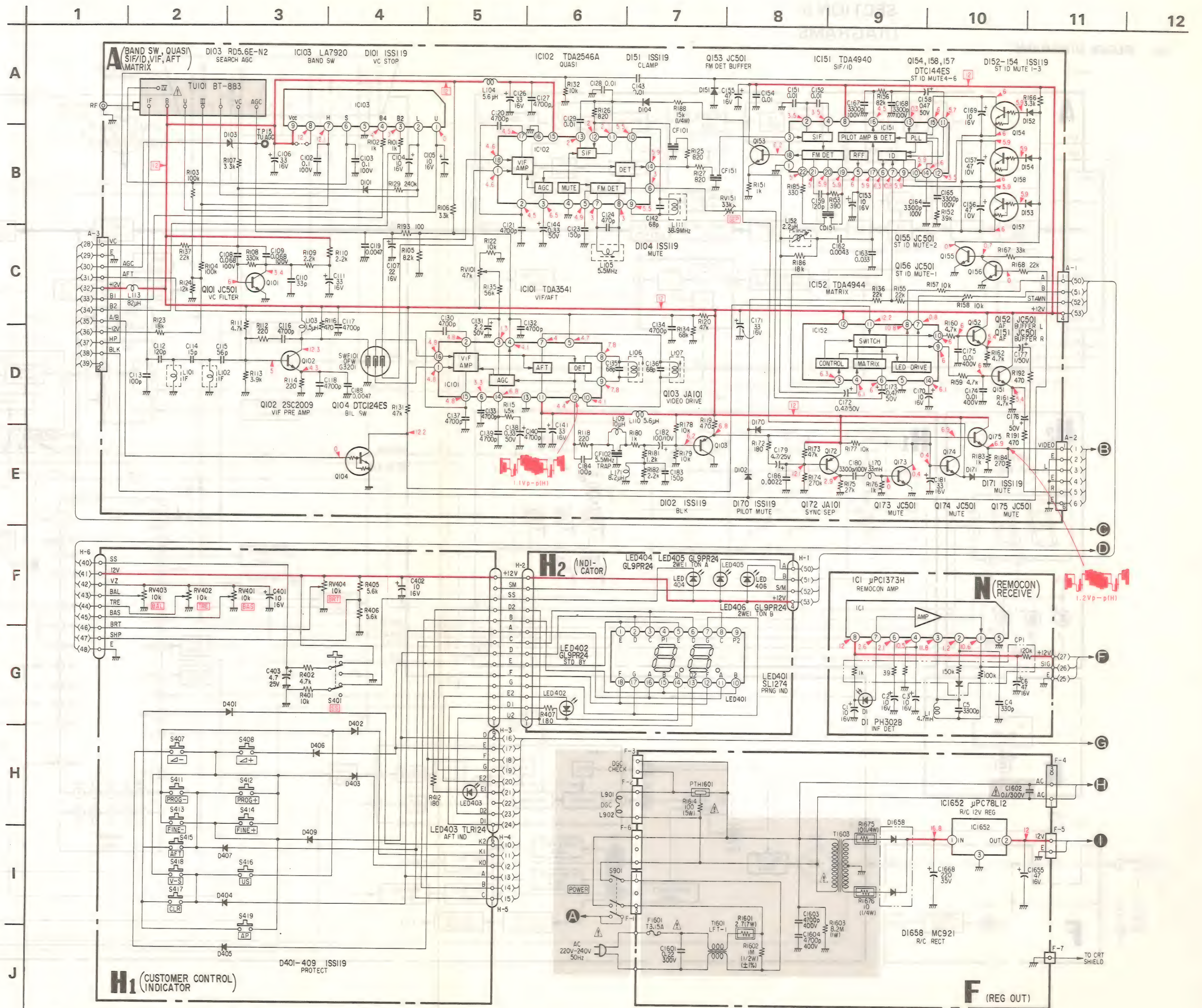
5-3. SCHEMATIC DIAGRAM

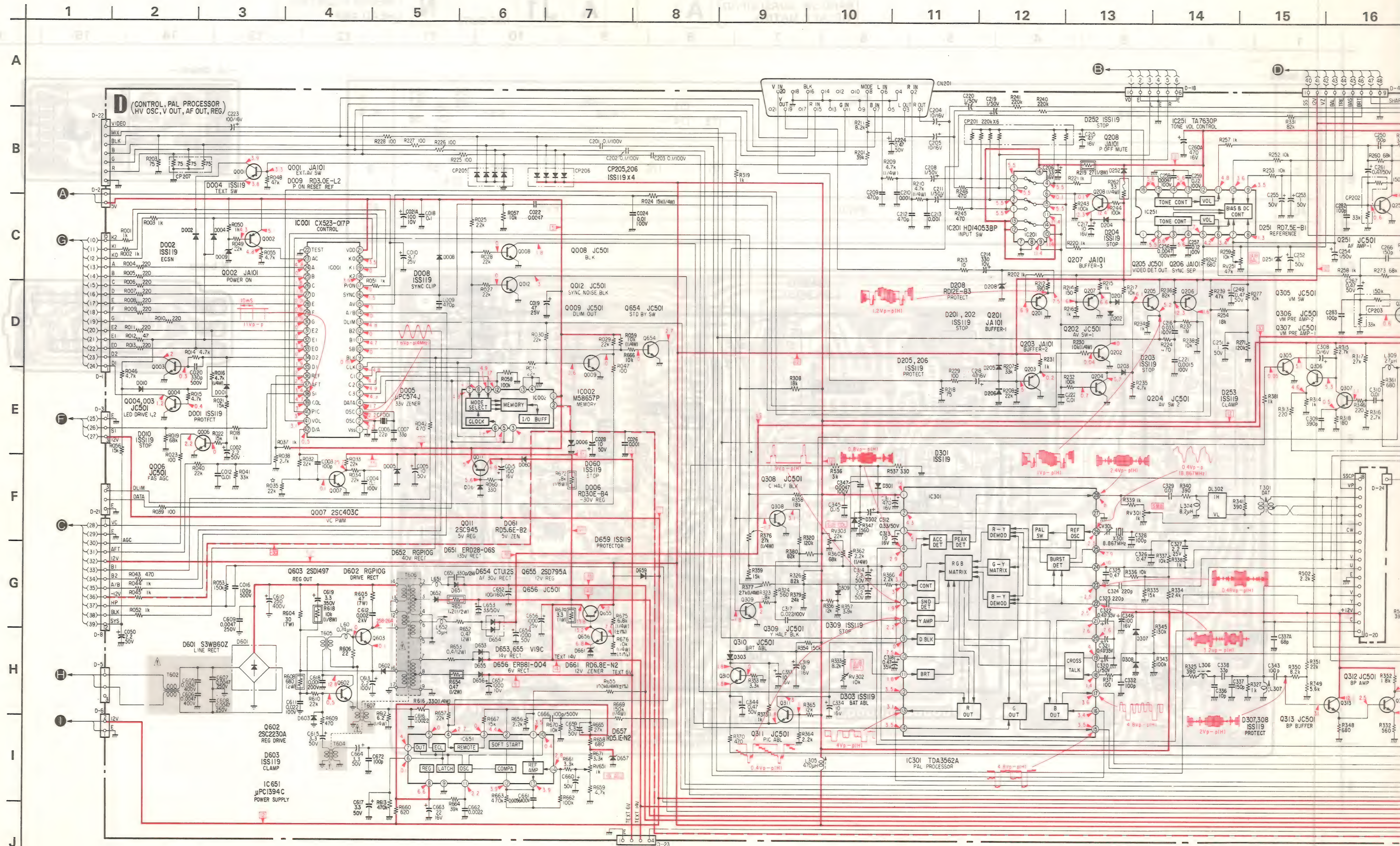
Note: The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted, pF: μF 50WV or less are not indicated except for electrolytics
- C board and D board resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted, and other boards are in ohms, $\frac{1}{8}$ W unless otherwise noted. k : 1000 Ω ; M : 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.

- : adjustment for repair.
- All voltage are in V.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltages on A and H₁ boards are taken under conditions below.
 - The channel 2 is selected.
 - VOLUME control is set to no sound position.
 - PICTURE control is set to the first stage. (The first stage is the condition when the POWER switch sets to ON.)
- Waveform on A board is taken with controls set to the first stage.
- Voltage variations may be noted due to normal production tolerances.





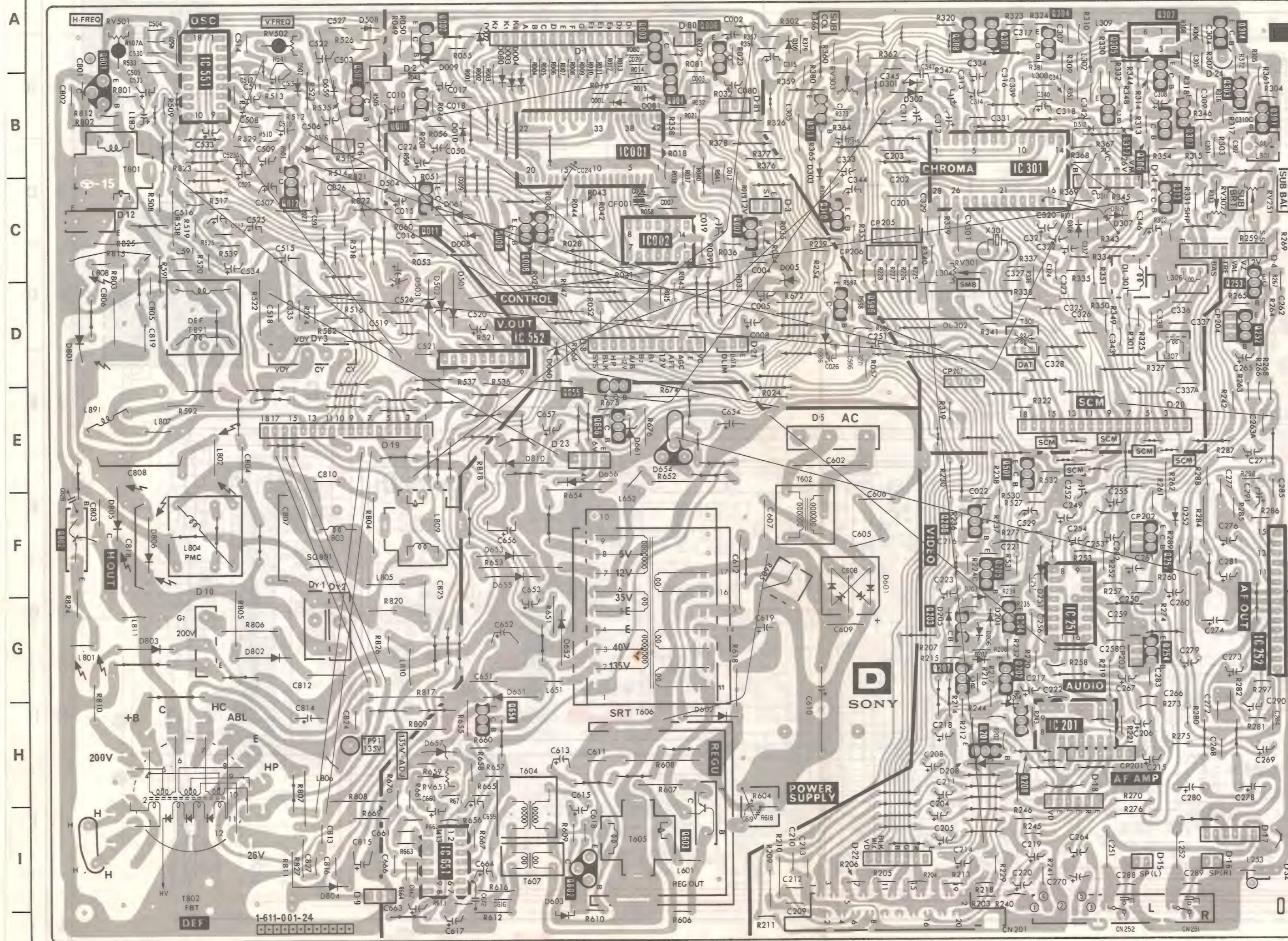
5-4. PRINTED WIRING BOARDS

CONTROL, PAL PROCESSOR
HV OSC, V OUT, AF OUT, REG

D

D

- D board -



IC, Q	D	ADJ	TP
308	508		
309	002		
002	309		
003	304		
006			
IC551	009, 080		
004	003		
801	507		
502	303		
001	659		
307	081, 001		
306	302		
	010		
	506		
IC001			
IC301	504		
012	303		
011	313		
310	061		
009, 008	307		
007	308		
IC002	008		
253	005		
596	503		
	502		
252	520		
	501		
IC0552	801		
	006		
	060		
655			
656	661		
501	654		
	810		
	656		
206	805		
802	251		
205	653		
	806		
	251		
	655		
	601		
IC252	203		
IC251	205		
204	205		
203	652		
	201		
254	803		
	802		
	202		
207	202		
654	651		
	204		
	602		
IC201			
201	657		
	208		
603			
IC651			
602	804		
	603		
IC, Q	D	ADJ	TP

[BAND SW, QUASI SIF/ID
VIF, AFT, MATRIX]

A

A

J1

[AF OUT]

N

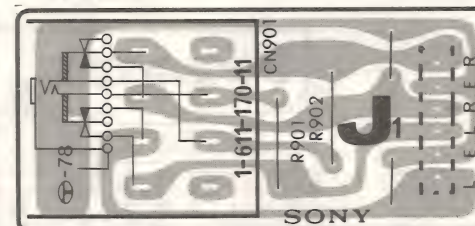
[MEMORY CONTROL
HEAD AMP]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

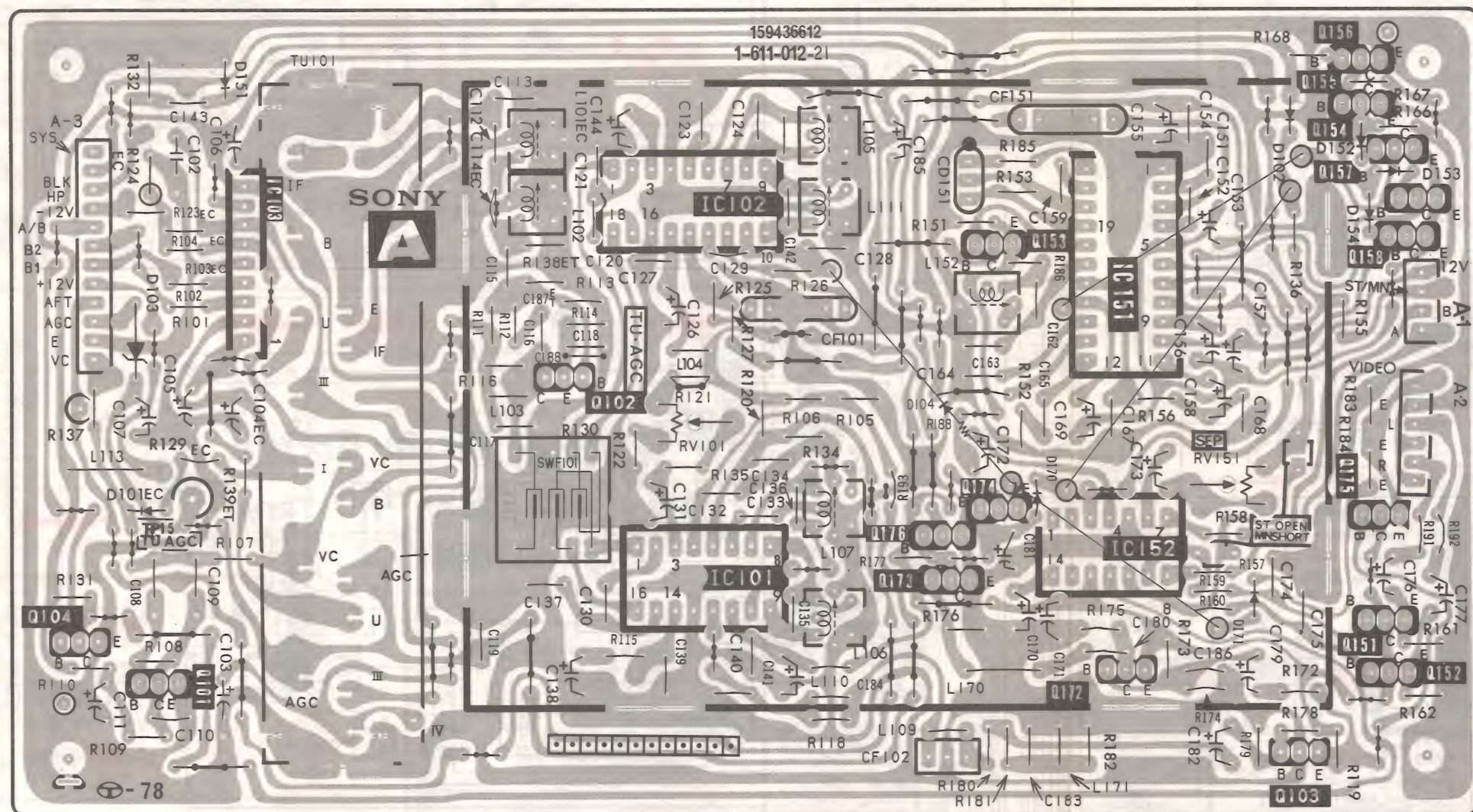
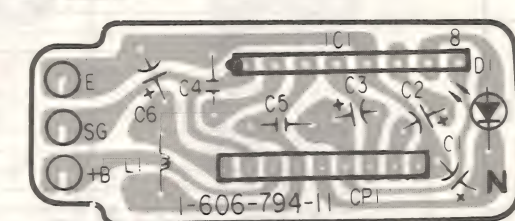
- A board -

IC, Q	104	101	IC103	102	IC102	153	IC151	156	154	IC, Q
					IC101	173 174	IC152	103	155	
							172		157	
									175	
									151	
									152	
D	103	151				104	170	171	102	D
	101								152	
									153	
									154	
ADJ					RV101			RV151		ADJ
TP	TP15									TP

- J₁ board -



- N board -



[PIN CORRECT
H CENT, H AMP]

D1

[CUSTOMER CONTROL
INDICATOR]

H1

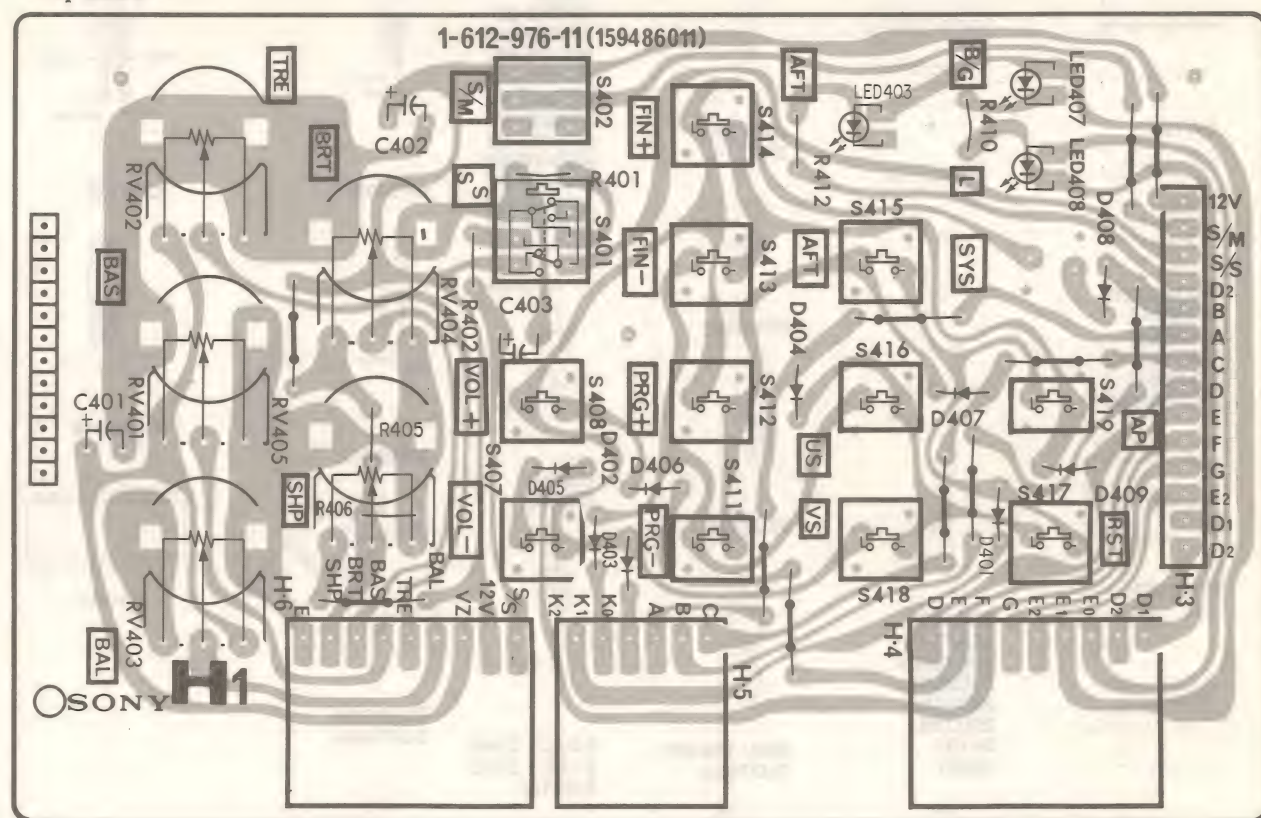
H2

[INDICATOR]

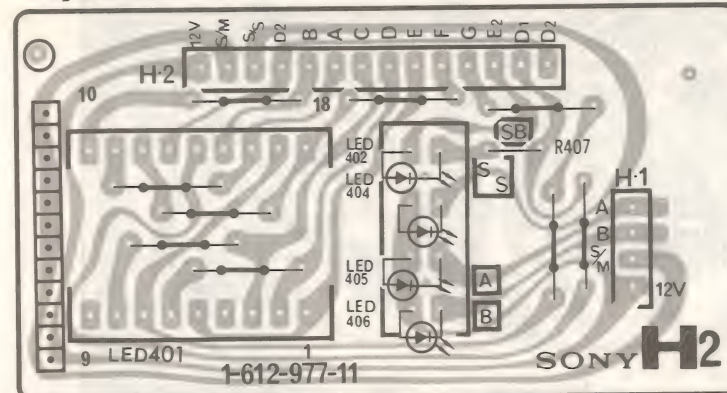
D2

1 2 3 4 5 6 7 8 9 10 11 12 13 14

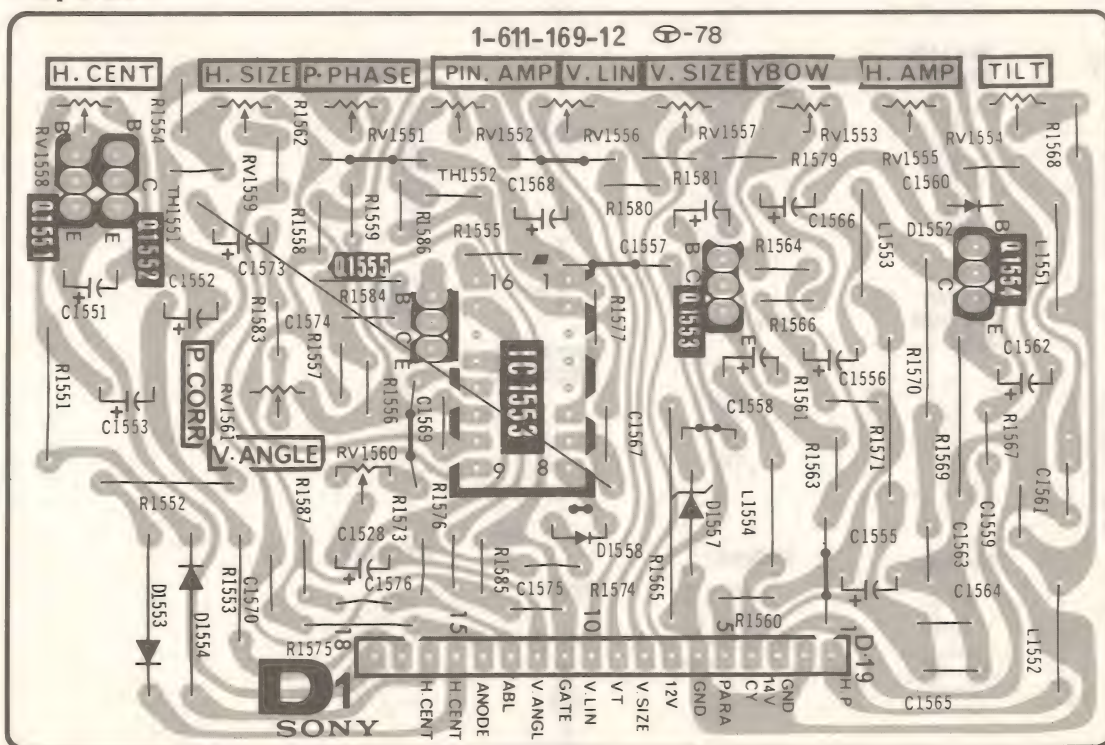
— H₁ board —



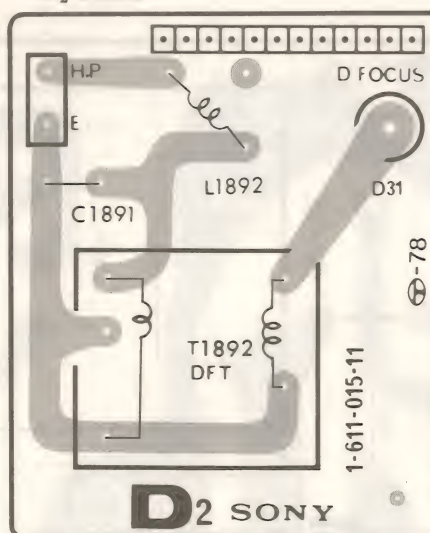
— H₂ board —



— D₁ board —

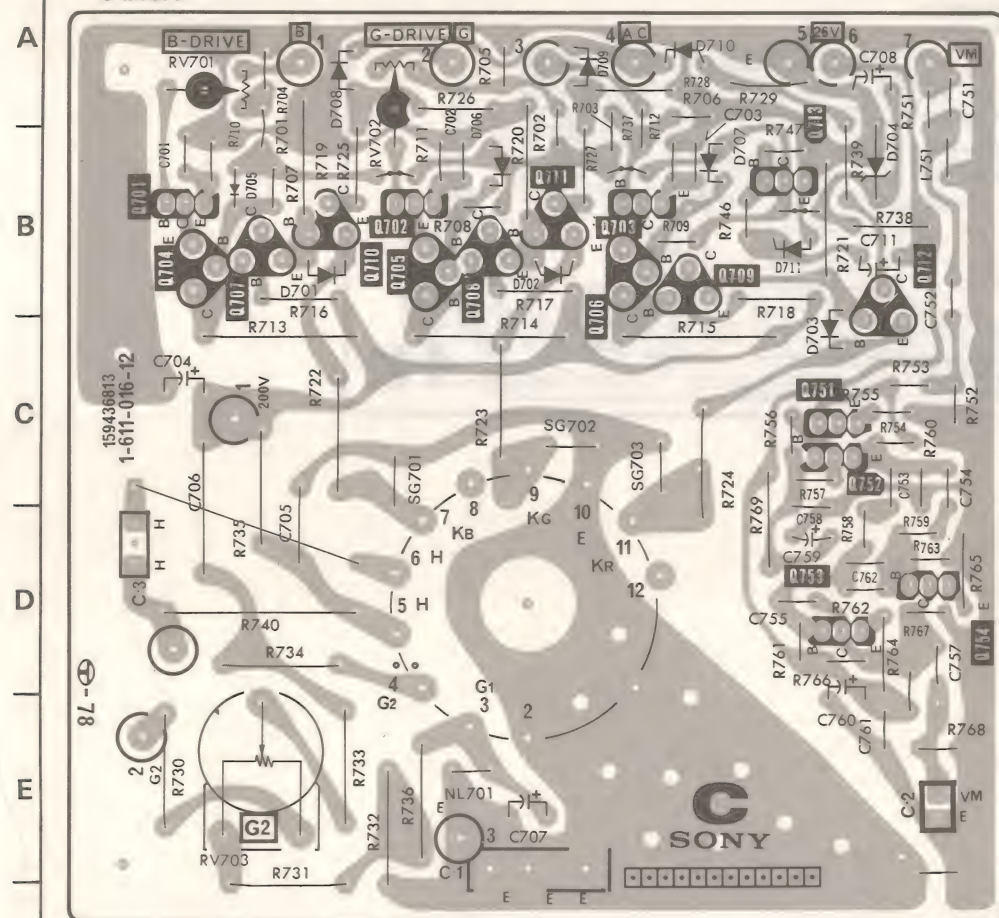


— D₂ board —

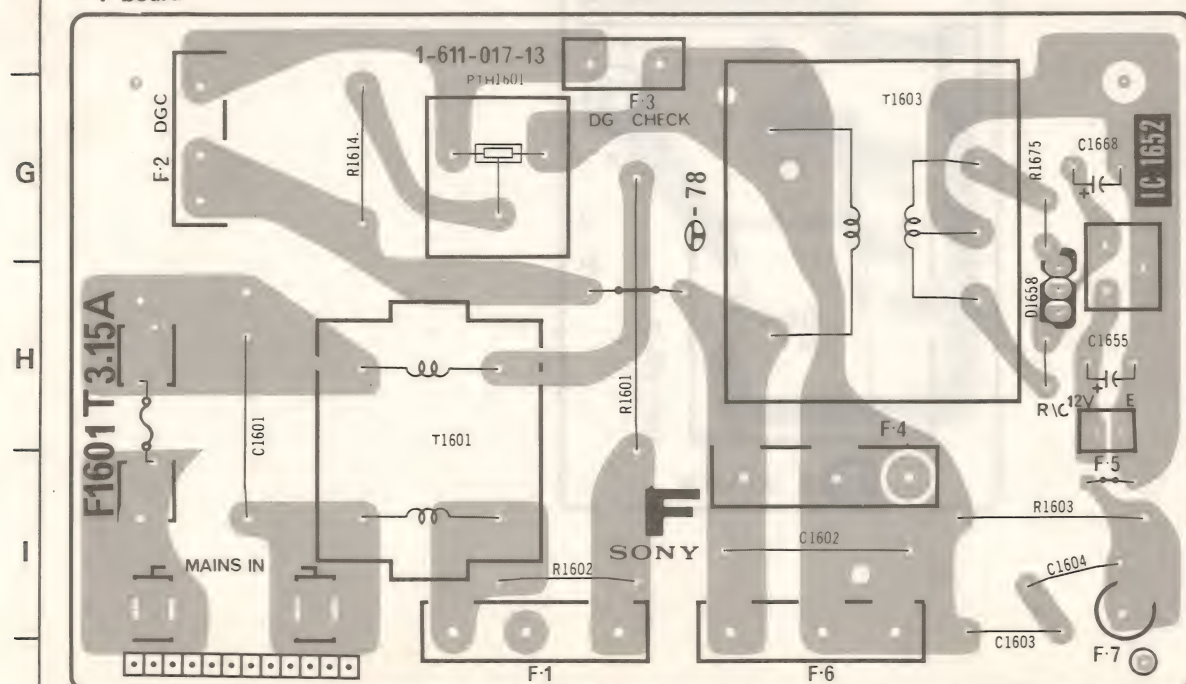


[REG OUT] **F** [R, G, B OUT] **C**
[VM OUT]

— C board —

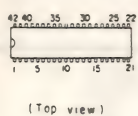


— F board —

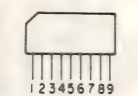


5-5. SEMICONDUCTORS

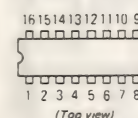
CX523-017P



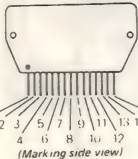
LA7920



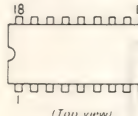
HD14053BP
M58657P
TA7630P
TDA1082A
TDA3541
μPD4053BC



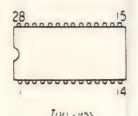
STK4362



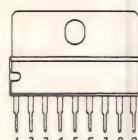
TDA2546A
TDA2578A



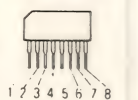
TDA3562A



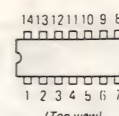
TDA3652



μPC1373H



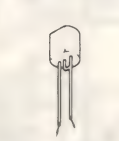
TDA4944
μPC1394C



μPC78L12



μPC574J



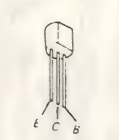
2SA1091
2SA773
2SC2230A
2SC2551
2SC945
2SD788
JA101
JC501



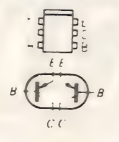
2SA1175
2SC2785



2SB740
2SC2230
JC501



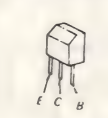
2SC1963



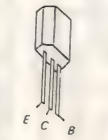
2SC2009



2SC2958
2SD774



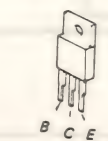
2SC403C



2SC2278



2SD1138-02C
2SD795A



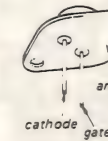
2SD1497
2SD1497-06



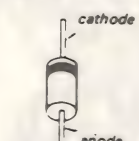
DTC124ES



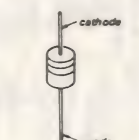
SG264A



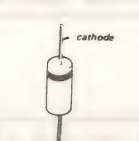
IS1555
1SS133
1SS99
ERB43-02
ERD28-06S
RD12E-B3
RD13E-B2
RD3.0E-B4
RD30E-B4
RD3.0E-L2
RD5.1E-N2
RD5.6E-B2
RD5.6E-N2
RD6.8E-N2
RD7.5E-B1



ISS119
1SS148



EQA01-22R2
EQA01-24R2
RGP10G



MC921



PH302B



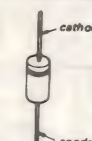
S3WB60Z



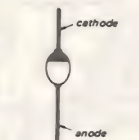
GL9PR24
SLP161B



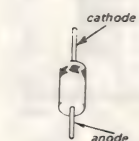
TLR147



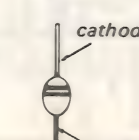
ERC26-15S



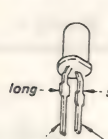
ERD29-04
ERD29-08J



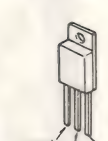
GP08B



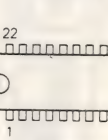
TLR124

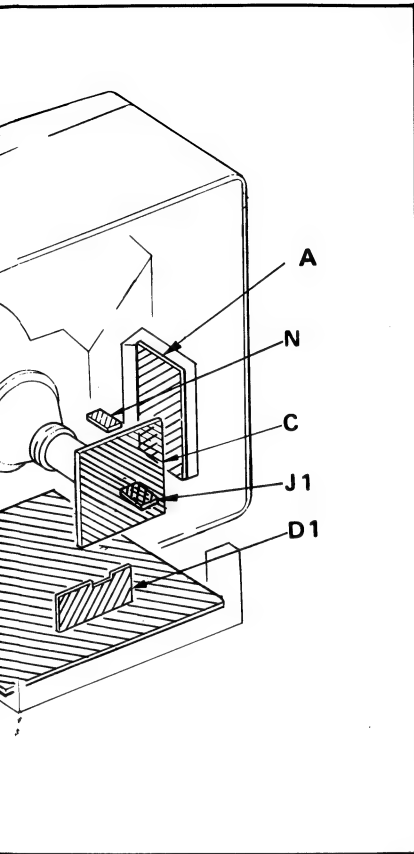


CTU12S



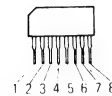
TDA4940



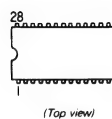


SEMICONDUCTORS

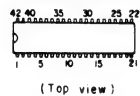
CX20061
CX20106
M54572L



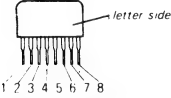
CX20199



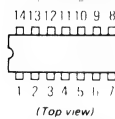
CX523-113P



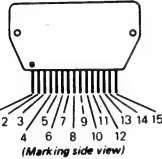
HIC2110



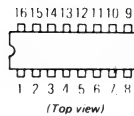
M58657P
TDA4944
μPC1394C



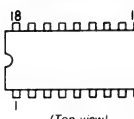
STK4362



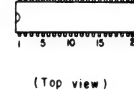
TDA1082
TDA3541



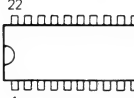
TDA2546
TDA2579



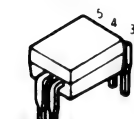
TDA3562A



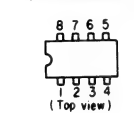
TDA4940



TLP581



μPC4558C



2SA1048-GR
2SC403SP
2SC2458
DTC124ES
DTC144ES



2SA1091
2SB740
2SC2551



2SA1220A
2SC2611
2SC2688
2SC2690A



2SC403



2SC2026-L



2SC2958
2SD774



2SD795A



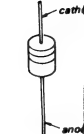
2SD1497-02
2SD1497-06



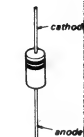
S6344G



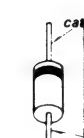
ISS119



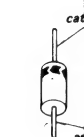
EQB01-13



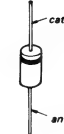
ERD28-08
RD12E-B2
RD13E-B2
RD30E-B4
RD5,6E-B2
RD5,6E-N2
RD6,8E-N2
RD6,8E-N3
RD7,5E-B2



ERD29-08J



ESIF



GH3F
U05G



GL-9PR24



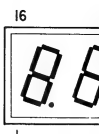
PH302B



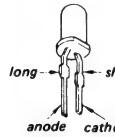
S3WB60Z



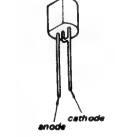
SL1274



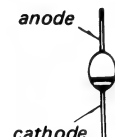
TLG124A
TLR124
TLY124



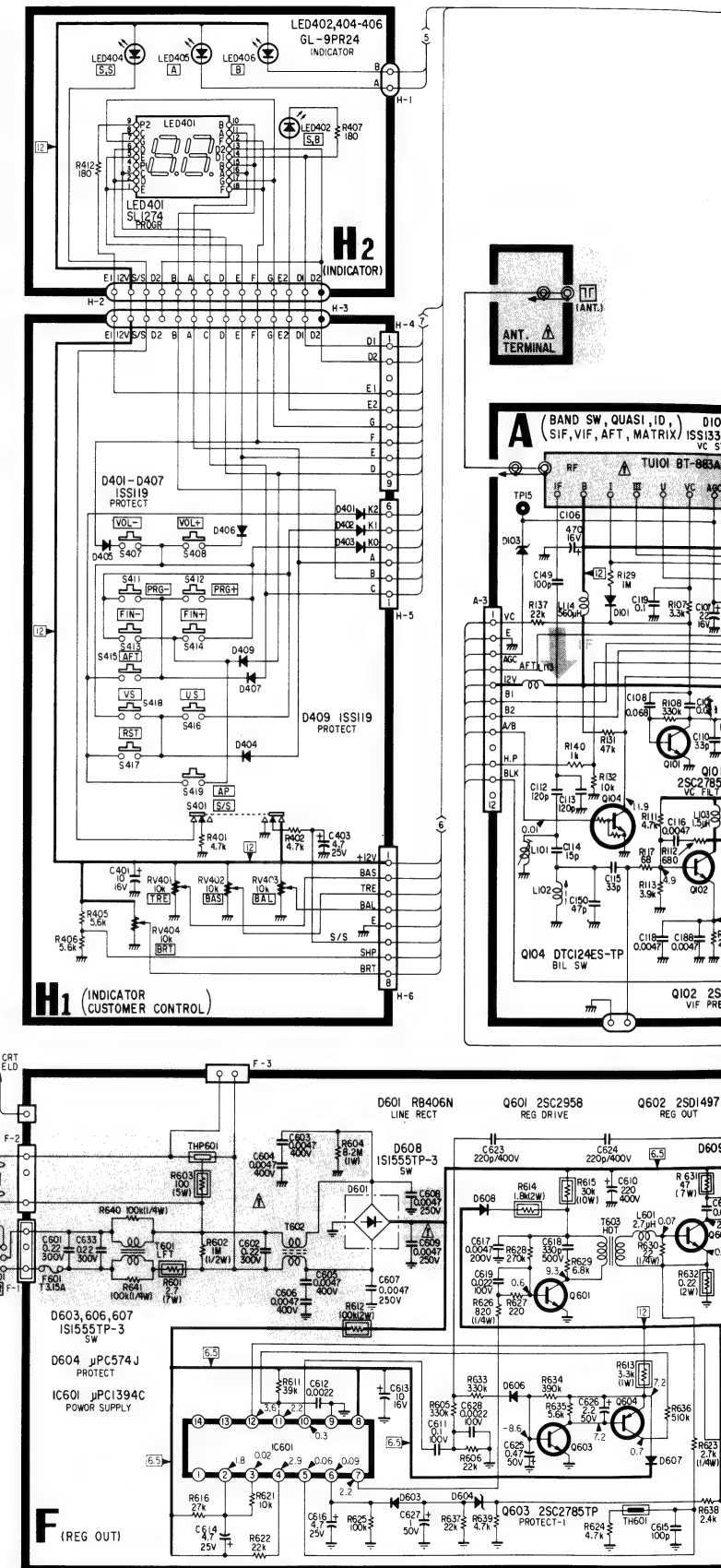
μPC574J



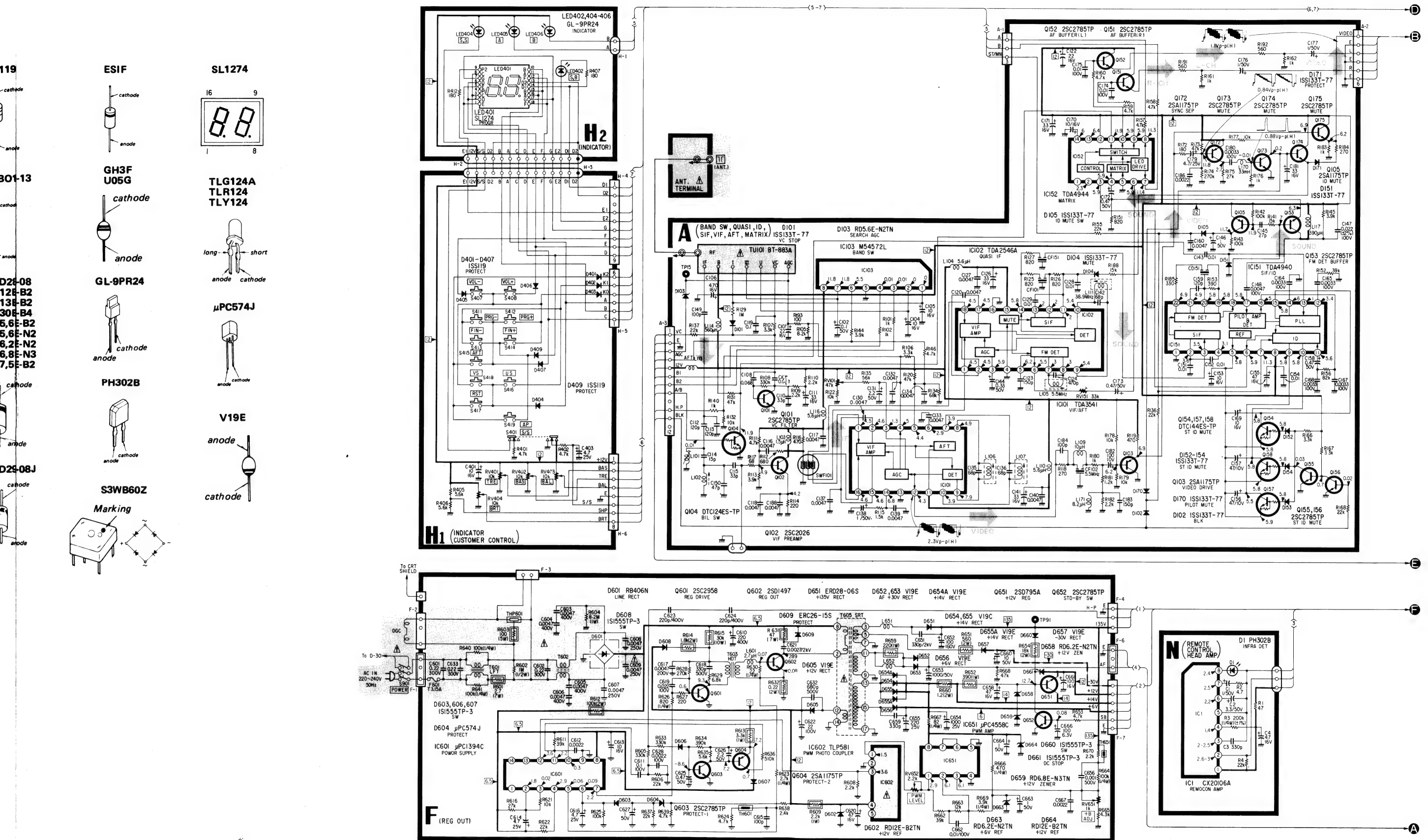
V19E



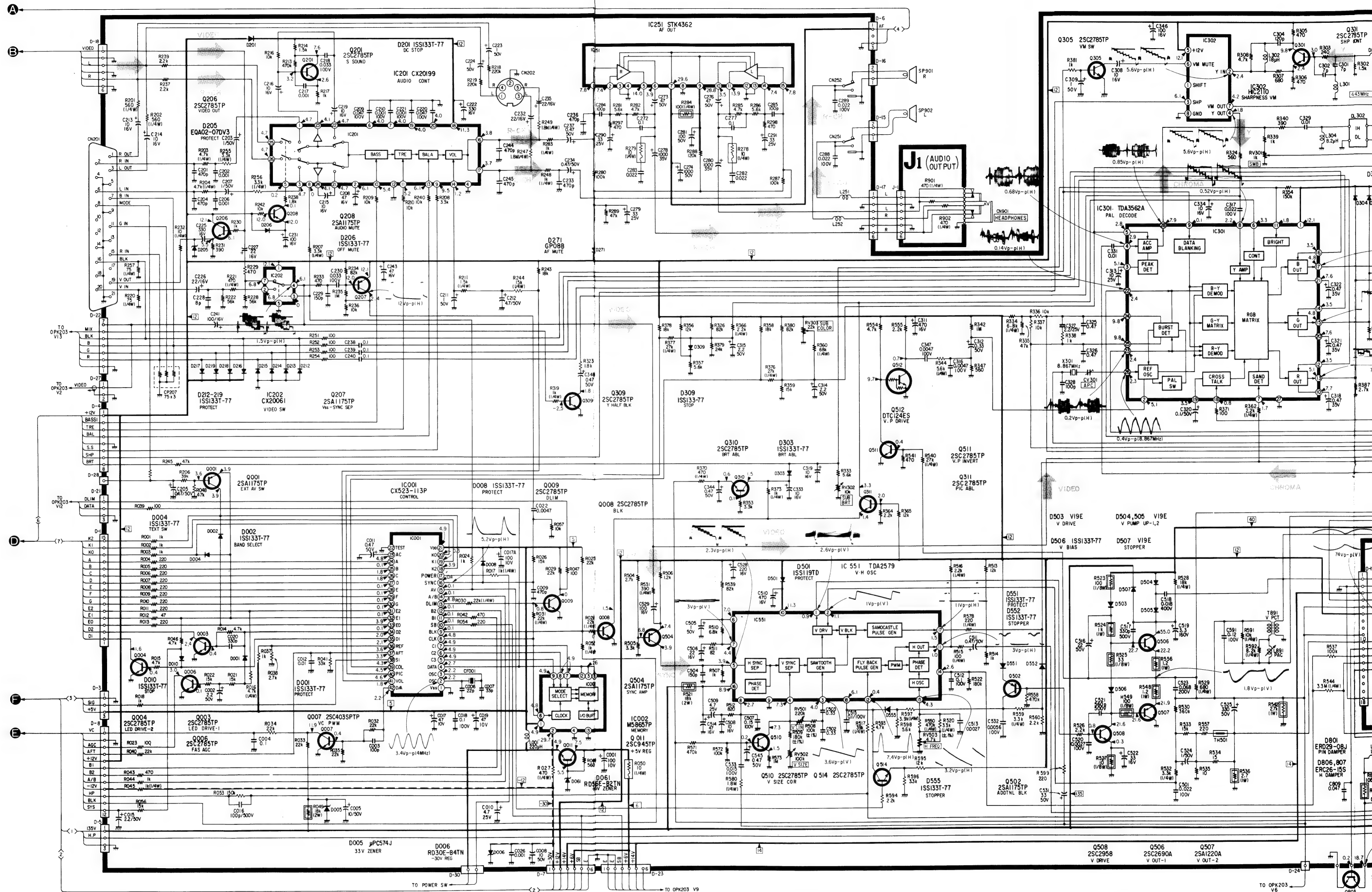
SCHEMATIC DIAGRAM

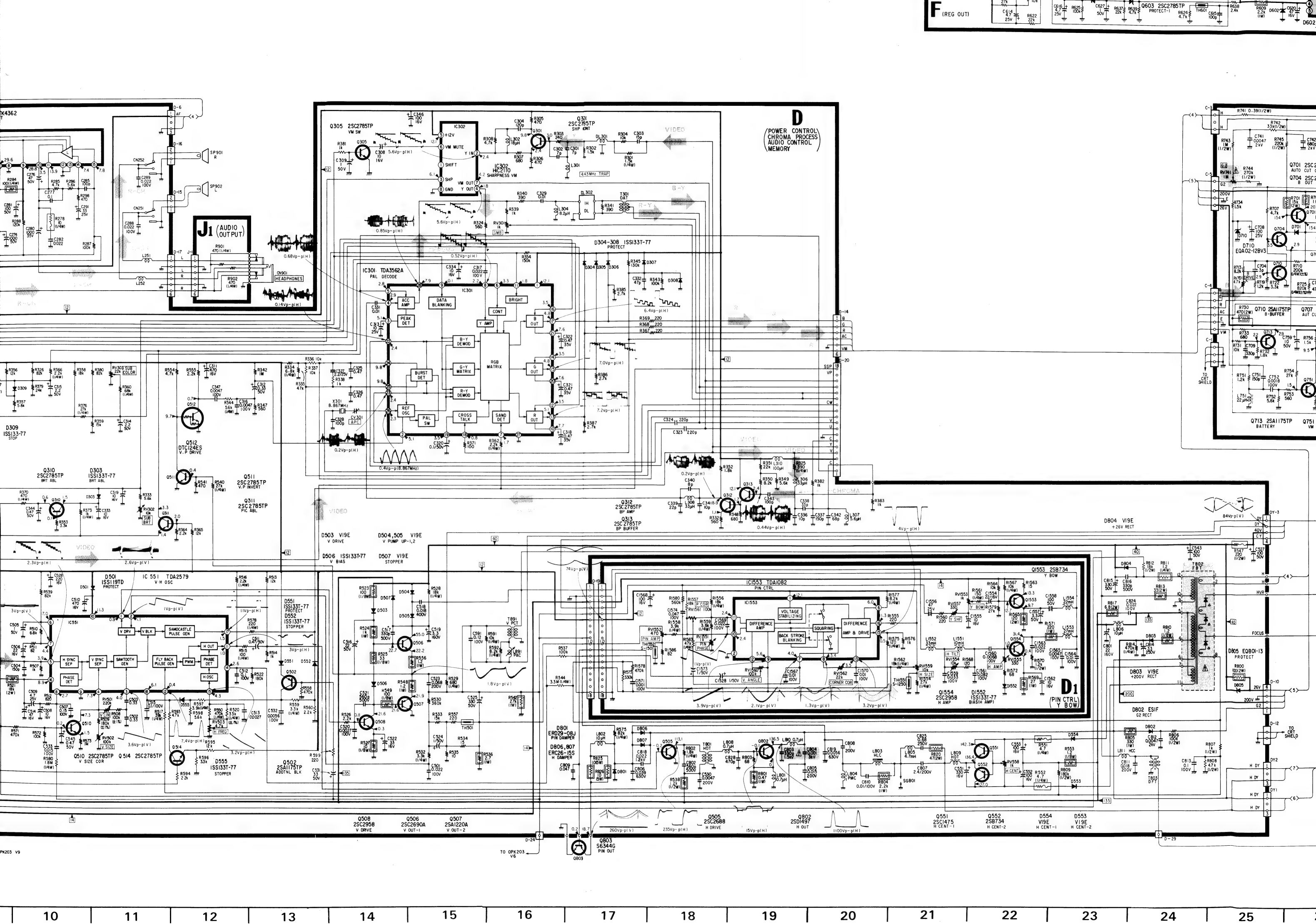


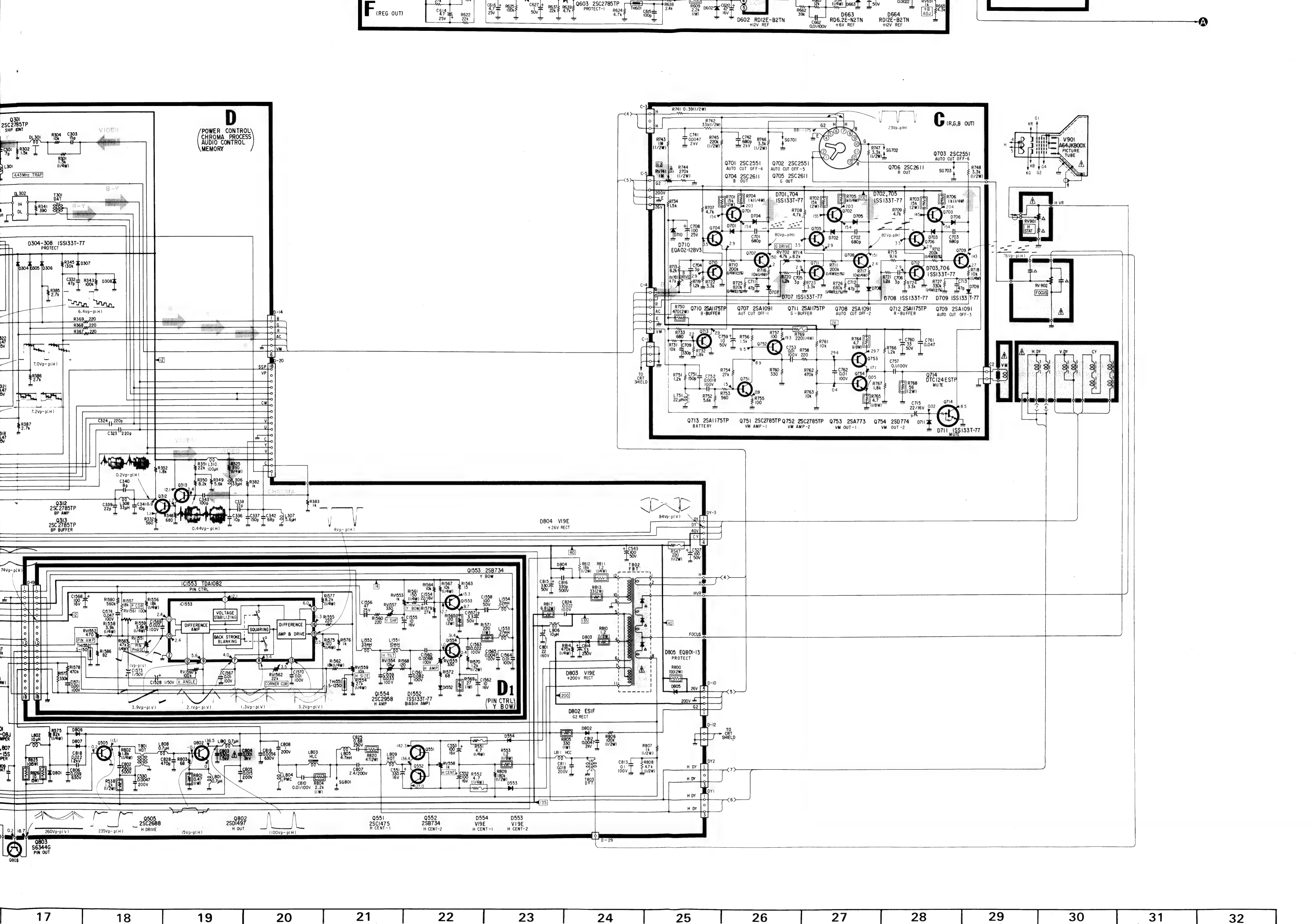
SCHEMATIC DIAGRAM



• - - - : B - bus.
• → : signal path.

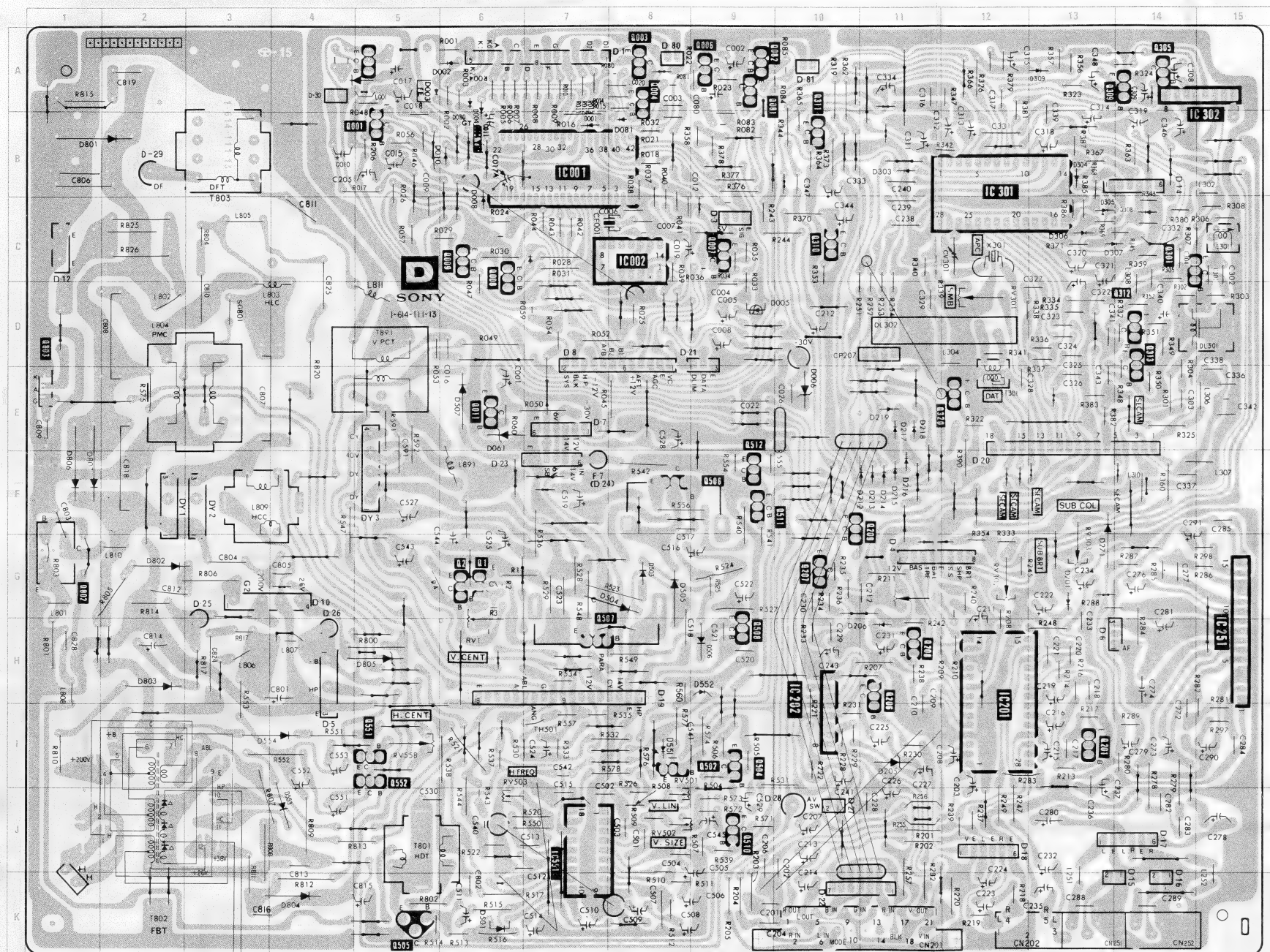






K

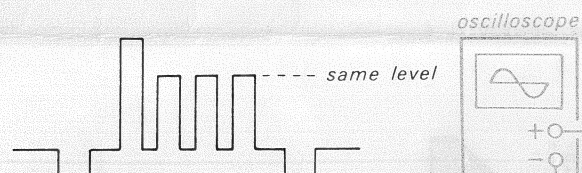
D [POWER CONTROL CHROMA PROCESS]
[AUDIO CONTROL MEMORY]



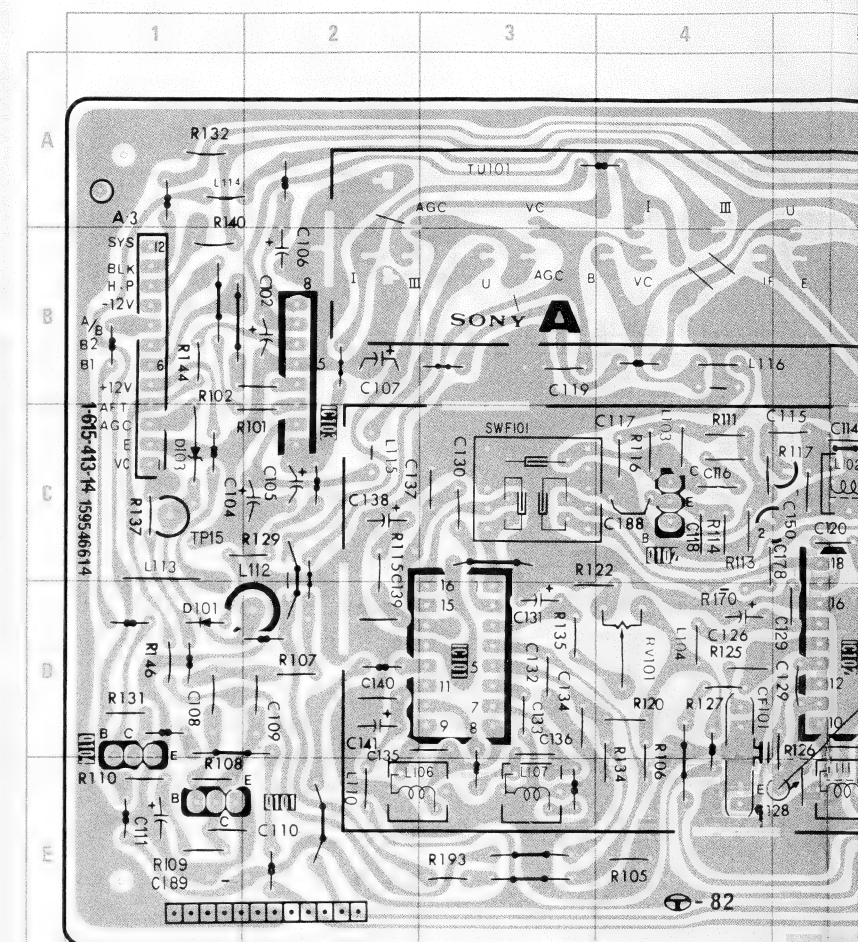
RV302 = G-12

1. Receive a color bar signal.
2. Set the picture control at Norm, COLOR control at minimum and BRIGHTNESS control to Mechanical center.
3. Connect an Oscilloscope at pin (17) of IC301.
4. Adjust RV303 so that same level as shown.

1. Receive a dot signal.
2. Set the BRIGHTNESS control at mechanical center.
3. Connect an Digital multi-meter at pin (11) of IC301.
4. Adjust to $2.0 \pm 0.2V$ with RV302.



A



RV101 = D-4

1. Tune in an off-air signal.
2. Adjust RV101 so that snow noise and cross-modulation disappear from the picture.

RV151 = D-8

1. Receive a stereo signal (L-CH 1 kHz, R-CH 400 Hz).
2. Confirm the stereo indicator.
3. Confirm the output 1 kHz signal at pin (9) of IC152.
4. Adjust RV151 so that minimum 1 kHz signal at pin (10) of IC152.

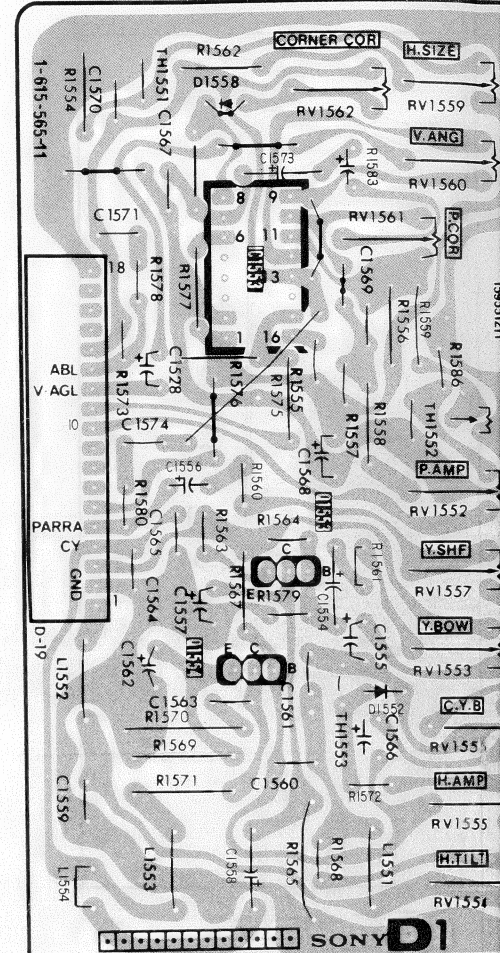
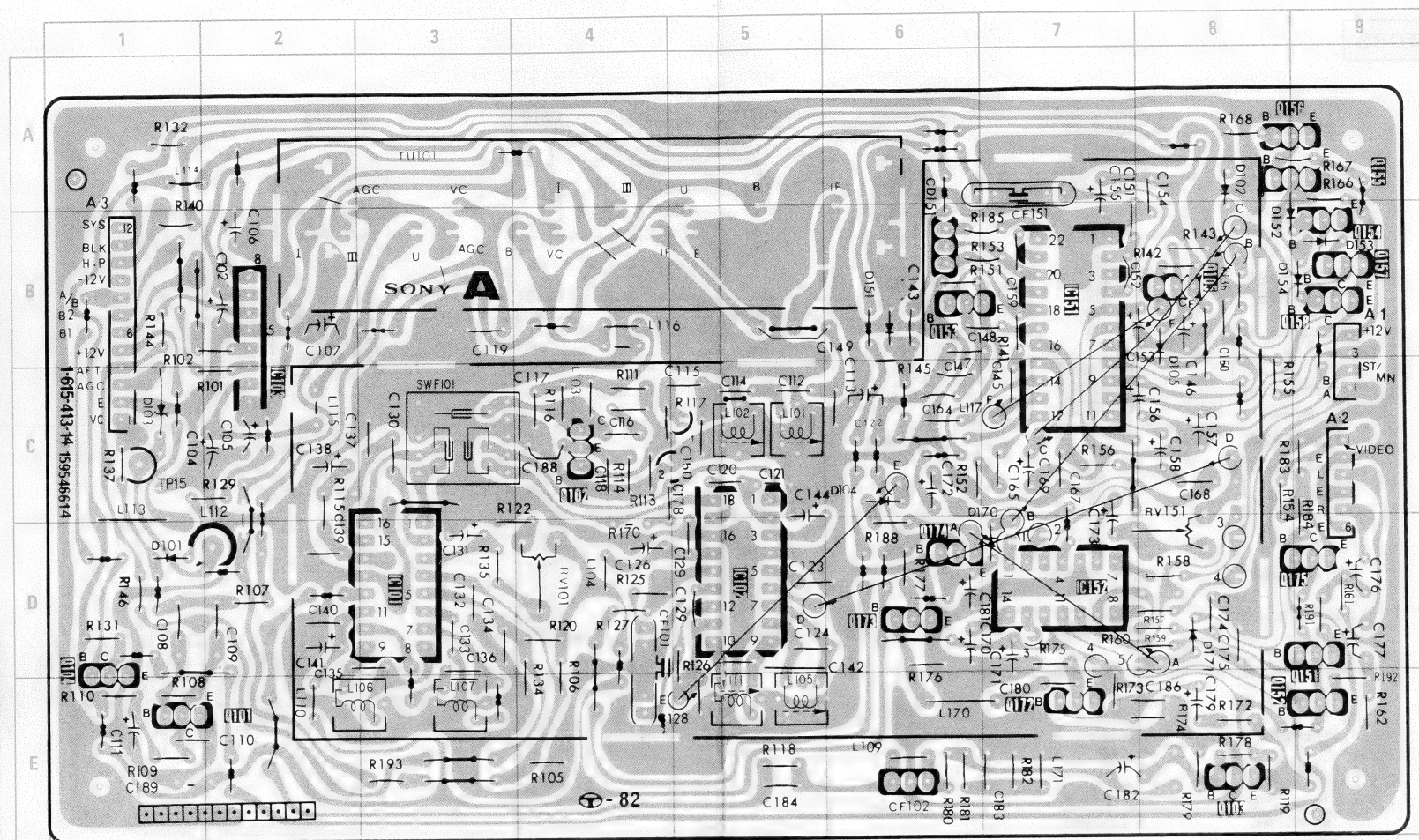
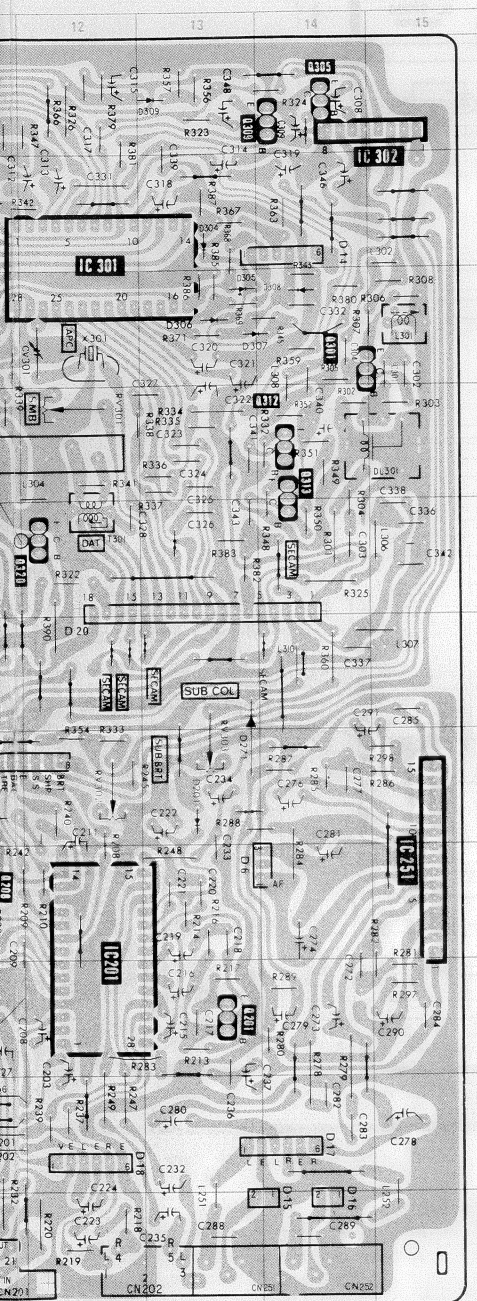
L105 = E-5

1. Tune in an off-air signal.
2. Adjust L105 for maximum clear-sound.

CN		C169	C-7	L112	C-2	R141	B-7
A1	B-9	C170	D-7	L113	C-1	R142	B-8
A2	C-9	C171	D-7	L114	A-1	R143	B-8
A3	A-1	C172	C-6	L115	C-2	R144	B-2
		C173	D-7	L116	B-6	R145	C-6
		C174	D-8	L117	C-4	R146	D-1

A [BAND SW, QUASI, ID,
SIF, VIF, AFT, MATRIX]

D1 [PIN CTRL Y BOW]



TU. AGC ADJUSTMENT RV101 = D-4

1. Tune in an off-air signal.
2. Adjust RV101 so that snow noise and cross-modulation disappear from the picture.

SEPARATION ADJUSTMENT RV151 = D-8

1. Receive a stereo signal (L-CH 1 kHz, R-CH 400 Hz).
2. Confirm the stereo indicator.
3. Confirm the output 1 kHz signal at pin ⑨ of IC152.
4. Adjust RV151 so that minimum 1 kHz signal at pin ⑩ of IC152.

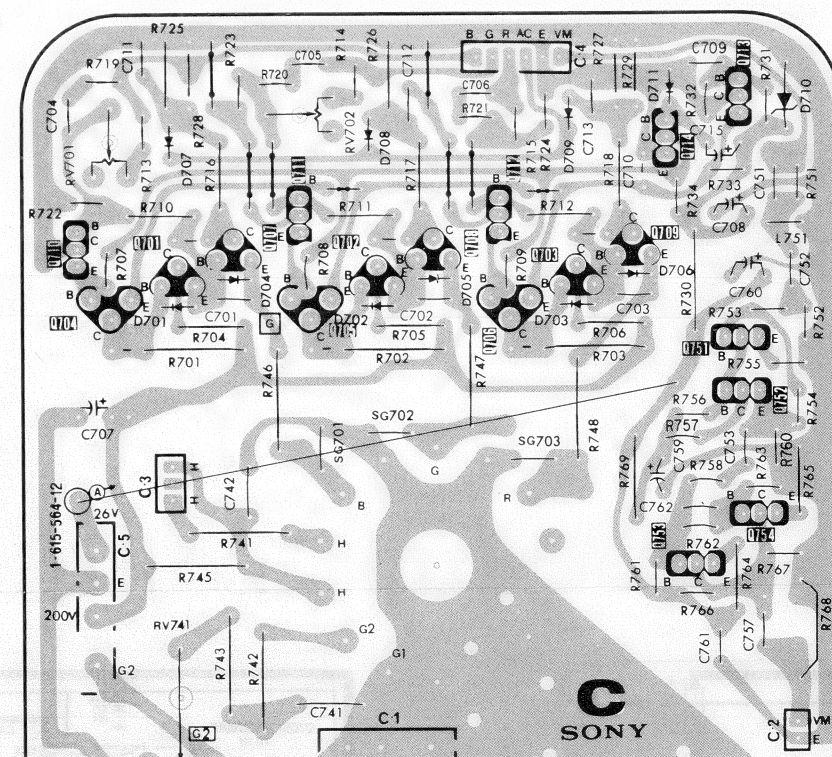
SIF ADJUSTMENT L105 = E-5

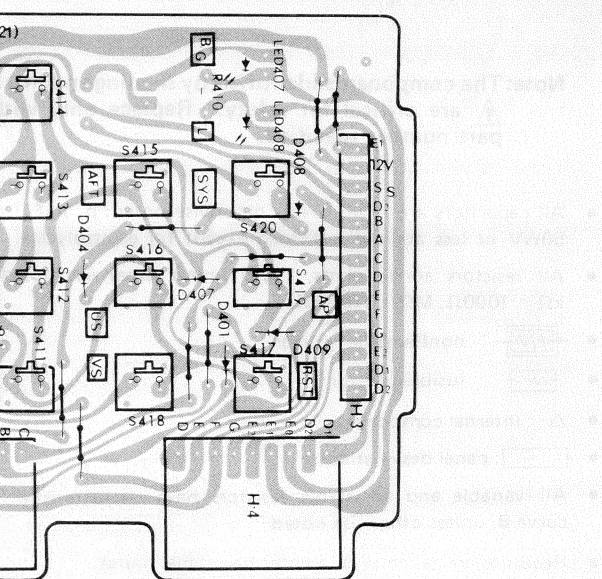
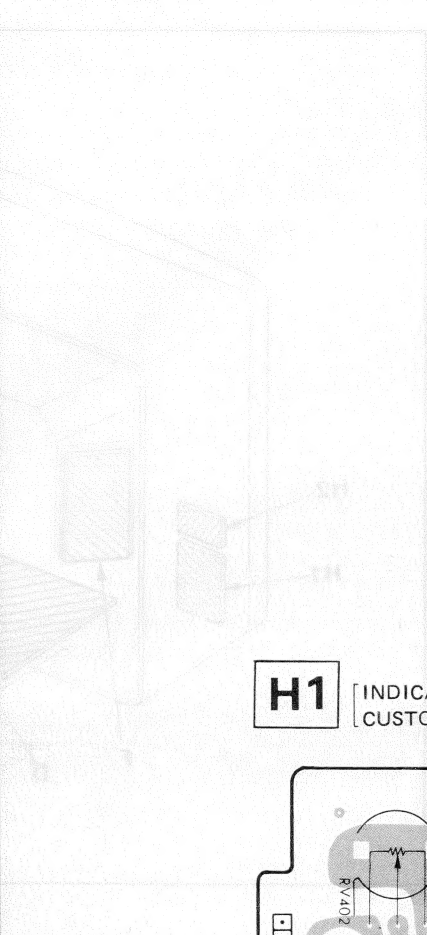
1. Tune in an off-air signal.
2. Adjust L105 for maximum clear-sound.

A

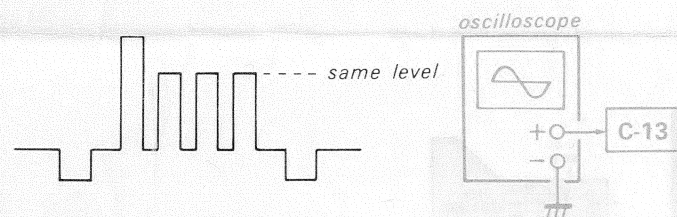
CN					
A1	B-9	C169	C-7	L112	C-2
A2	C-9	C170	D-7	L113	C-1
A3	A-1	C171	D-7	L114	A-1
C		C172	C-6	L115	C-2
		C173	D-7	L116	B-4
		C174	D-8	L117	C-6
		C175	D-8	L170	E-6
		C176	D-9	L171	E-7
				R141	B-7
				R142	B-8
				R143	B-8
				R144	B-2
				R145	C-6
				R146	D-1
				R151	B-7
				R152	C-6

C [R, G, B OUT]





2. Set the picture control at Norm, COLOR control at minimum and BRIGHTNESS control to Mechanical center.
3. Connect an Oscilloscope at pin (17) of IC301.
4. Adjust RV303 so that same level as shown.



APC ADJUSTMENT

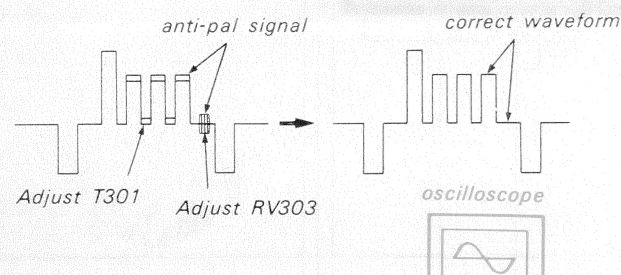
CV301 = C-12

1. Receive a color bar signal.
2. Each controls at normal.
3. Short circuit between pin (2) and pin (3) of IC301 with a jumper.
4. Connect Resistor (100 kΩ/1/4W) between pin (24) and pin (25).
5. Adjust CV301 to obtain the stable color picture.
6. Disconnect the Resistor and jumper.

1H DL ADJUSTMENT

T301 = E-12, RV301 = D-12

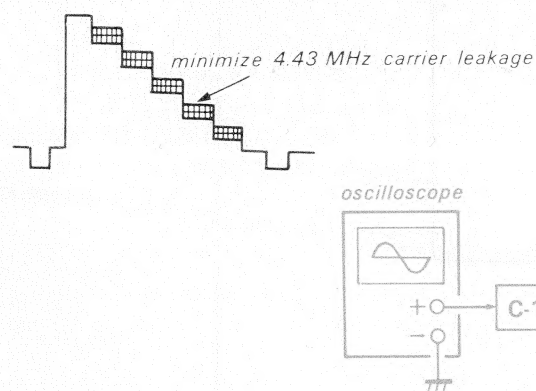
1. Receive a color bar signal.
2. Set the picture control at Norm and color control at minimum.
3. Connect an Oscilloscope at pin (17) of IC301.
4. Get tracking with both T301 and RV301 as shown.



4.43 MHz TRAP ADJUSTMENT

L301 = C-15

1. Receive a color-bar signal.
2. Connect an Oscilloscope at pin (17) of IC301.
3. Set the picture control at norm, color control at minimum and BRIGHTNESS control to mechanical center.
4. Adjust L301 for minimum 4.43 MHz component.



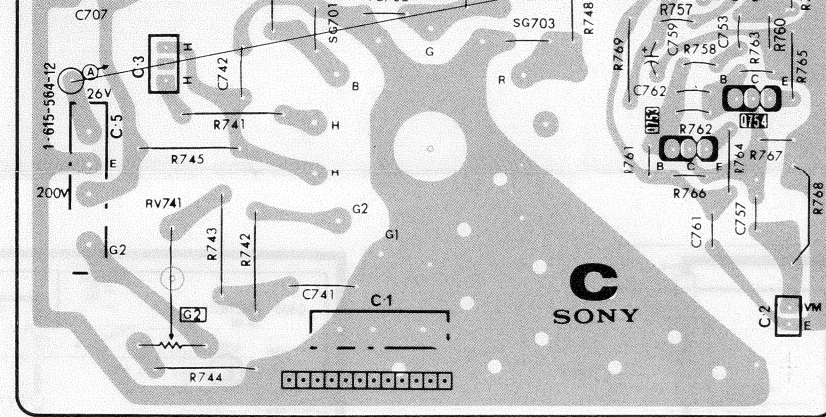
D

C		F		C		E		I		A		C		J	
C001	E-6	C291	F-14	C810	C-3	D218	E-11	O201	I-13	R085	A-10	R345	C-14	R552	J-4
C002	A-9	C301	C-15	C811	C-4	D219	E-11	O206	H-11	R201	J-11	R347	A-12	R553	H-3
C003	A-8	C302	C-15	C812	G-2	D271	G-13	O207	G-10	R202	J-11	R348	E-14	R554	F-9
C004	D-9	C303	E-14	C813	J-4	D303	B-11	O208	H-11	R203	J-9	R349	D-14	R555	F-10
C005	D-9	C304	C-14	C814	H-2	D304	B-13	O209	F-11	R204	K-9	R350	E-14	R556	F-8
C006	C-8	C308	A-14	C815	K-5	D305	C-13	O301	C-14	R205	K-9	R351	D-14	R557	I-7
C007	C-8	C309	A-14	C816	K-3	D306	C-13	O305	A-14	R206	B-5	R352	D-14	R558	I-9
C008	D-9	C311	B-11	C818	F-2	D307	C-13	O309	A-13	R207	H-11	R353	C-10	R559	I-8
C009	B-5	C312	B-11	C819	A-2	D308	C-14	O310	C-10	R208	H-12	R354	G-12	R560	H-8
C010	B-4	C313	B-12	C824	H-3	D309	A-13	O311	A-10	R209	H-11	R355	A-13	R571	J-9
CF		C314	A-13	C825	D-4	D501	K-6	O312	D-14	R210	H-12	R357	A-13	R572	J-9
		C315	A-12	C828	H-1	D503	G-8	O313	D-14	R211	G-11	R358	B-8	R573	J-9
		C316	A-11	CF001 C-7		D504	G-8	O320	E-11	R212	G-11	R359	C-14	R574	I-9
		C317	A-12			D505	G-8	O502	I-9	R213	I-13	R360	F-14	R575	E-2
CN		C318	B-13	CN201 K-11		D506	G-9	O504	I-9	R214	H-13	R362	A-10	R578	I-8
		C319	B-14			D507	E-6	O505	K-5	R216	H-13	R363	B-14	R591	E-5
		C320	C-13			D551	I-8	O506	F-9	R217	I-13	R364	B-10	R592	E-5
		C321	C-13			D552	H-9	O507	H-7	R218	K-12	R365	A-10	R593	I-7
DL		C322	D-13	CN202 K-12		D553	I-4	O508	H-9	R219	K-12	R366	A-12	R594	E-8
		C323	D-13			D554	I-4	O510	J-9	R220	K-12	R367	B-13	R595	E-8
		C324	D-13			DL301 D-15		O511	F-10	R221	I-10	R368	B-13	R596	F-8
		C325	D-13					O512	E-9	R222	I-10	R369	C-13	R597	I-8
R		C326	E-13					O514		R228	I-10	R370	C-10	R801	H-1
		C327	D-13					O551	I-5	R229	I-10	R371	C-13	R802	K-5
		C328	E-13					O552	I-5	R230	I-11	R373	B-10	R803	G-1
		C329	D-11					O802	G-1	R231	I-10	R376	B-9	R804	D-3
IC		C330	B-12					O803	D-1	R232	K-11	R377	B-9	R805	G-2
		C331	B-12					DL302 D-11		R233	H-10	R378	B-9	R806	G-3
		C332	C-14							R234	G-10	R379	A-12	R807	J-3
		C333	B-10							R235	G-10	R380	C-14	R808	J-3
L		C334	A-11							IC001 B-7		R381	A-12	R809	J-4
		C336	E-15									R382	E-13	R810	I-1
		C337	F-14									R383	E-13	R811	K-3
		C338	E-15									R385	B-13	R812	K-4
CV		C339	B-13									R386	C-13	R813	J-5
		C340	D-14									R387	B-13	R814	G-2
		C341	D-13									R390	F-12	R815	A-1
		C342	E-15									R504	I-9	R817	H-3
D		C343	E-13									R505	I-9	R820	E-4
		C344	C-10									R506	I-9	R825	C-2
		C346	B-14									R507	J-9	R826	C-2
		C347	B-10									R508	J-8	RV	
Q		C348	A-13									R509	J-8		
		C501	J-8									R510	K-8		
		C502	J-7									R511	K-9		
SG		C503	J-8									R512	K-8		
		C504	J-8									R513	K-6		
		C505	J-9									R514	K-5		
		C506	K-9									R515	K-6		
T		C507	K-8									R516	K-6		
		C508	K-8									R517	K-6		
		C509	K-8									R520	J-7		
		C510	K-7									R521	I-6		
TH		C511	K-6									R522	J-6		
		C512	K-7									R523	G-8		
		C513	J-7									R524	G-9		
		C514	K-7									R525	H-9		
X		C515	J-7									R526	I-8		
		C516	G-8									R527	G-9		
		C517	G-8									R528	G-7		
		C518	H-8									R529	G-7		
TU		C519	F-7									R530	I-6		
		C520	H-9									R531	I-10		
		C521	H-9									R532	I-8		
		C522	G-9									R533	I-7		
J1		C523	G-7									R534	H-7		
		C524	I-7									R535	I-8		
		C525	G-6									R536	G-7		
		C527	F-5									R537	I-6		
J2		C528	E-8									R538	I-6		
		C529	J-9									R539	J-9		
		C530	J-5									R540	F-9		
		C531	G-6									R541	G-9		
J3		C532	I-9									R542	F-8		
		C533	I-9									R543	J-6		
		C534	G-5									R544	J-6		
		C544	G-5									R547	F-4		
J4		C545	J-9									R548	G-7		
		C551	J-4									R549	H-8		
		C552	I-4									R550	J-7		
		C553	I-4									R551	I-4		
J5		C591	E-5									R335	D-13		
		C801	H-4									R336	D-13		

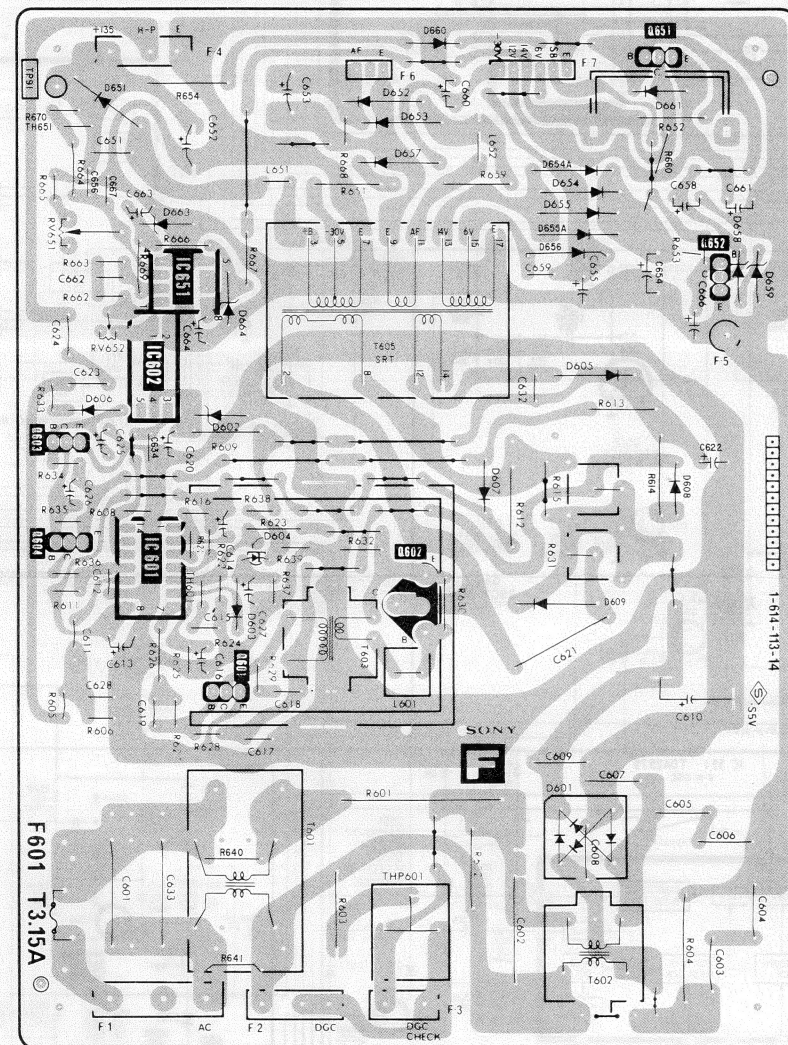
1. Tune in an off-air signal.
2. Adjust L105 for maximum clear-sound.

A

CN							
A1	B-9	C169	C-7	L112	C-2	R141	B-7
A2	C-9	C170	D-7	L113	C-1	R142	B-8
A3	A-1	C171	D-7	L114	A-1	R143	B-8
		C172	C-6	L115	C-2	R144	B-2
		C173	D-7	L116	B-4	R145	C-6
		C174	D-8	L117	C-6	R146	D-1
		C175	D-8	L170	E-6	R151	B-7
		C176	D-9	L171	E-7	R152	C-6
		C177	D-9			R153	B-7
		C179	E-8			R155	C-8
				Q			
C102	B-2	C180	E-7	Q101	E-2	R156	C-7
C104	C-1	C181	D-7	Q102	C-4	R157	D-8
C105	C-2	C182	E-7	Q103	E-8	R158	D-8
C106	B-2	C183	E-7	Q104	D-1	R159	D-8
C107	B-2	C184	E-5	Q105	B-8	R160	D-7
C108	D-1	C186	E-8	Q151	E-9	R161	D-9
C109	D-2	C188	C-4	Q152	E-8	R162	E-9
C110	E-2			Q153	B-6	R166	A-9
C111	E-1			Q154	B-9	R167	A-9
C112	C-5			Q155	A-9	R168	A-8
		CD					
C113	C-6	CD151 A-6		Q156	A-8	R172	E-8
C114	C-5			Q157	B-9	R173	E-7
C115	C-5			Q158	B-9	R174	E-8
C116	C-4			Q172	E-7	R175	D-7
C117	C-4	CF		Q173	D-6	R176	D-6
C118	C-4			Q174	D-6	R177	D-6
C119	B-3	CF101	D-4	Q175	D-9	R178	E-8
C120	C-5	CF102	E-6			R179	E-8
C121	C-5	CF151	B-7			R180	E-6
C122	C-6					R181	E-6
		D		R			
C123	D-5	D101	D-1	R101	C-2	R182	E-7
C125	C-4	D102	A-8	R102	B-1	R183	C-8
C124	D-5	D103	C-1	R105	E-4	R184	C-8
C126	D-4	D104	C-6	R106	E-4	R185	B-7
C127	D-5	D105	C-8	R107	D-2	R188	D-6
C128	E-5	D151	B-6	R108	E-1	R191	D-9
C129	D-5	D152	B-8	R109	E-1	R192	E-9
C130	C-3	D153	B-9	R110	E-1	R193	E-3
C131	D-3	D154	B-8	R111	C-4		
C132	D-3	D170	C-7	R112	C-4	RV	
C133	D-3					RV101 D-4	
C134	D-3	D171	D-8	R113	C-4	RV151 D-8	
C135	D-2			R114	C-4		
C136	D-3	IC		R115	C-2	SWF	
C137	C-2	IC101	D-3	R116	C-4	SWF101 C-3	
C138	C-2	IC102	D-5	R117	C-5		
C139	D-2	IC103	C-2	R118	E-5	TP	
C140	D-2	IC151	B-7	R119	E-8	TP15 D-1	
C141	D-2	IC152	D-7	R120	D-4		
C142	D-6			R122	C-3	TU	
C143	B-6			R125	D-4	TU101 A-3	
C144	C-4	L		R126	D-5		
C145	C-7	L101	C-5	R127	D-4		
C146	C-8	L102	C-5	R129	C-2		
C147	C-6	L103	C-4	R131	D-1		
C148	B-7	L104	D-4	R132	A-1		
C149	B-6	L105	E-5	R134	E-4		
C150	D-5	L106	E-2	R135	D-3		
C151	A-7	L107	E-3	R136	B-8		
C152	B-8	L109	E-6	R137	C-1		
C153	B-8	L110	E-2	R140	A-1		
C154	A-8	L111	E-5				
C155	A-7						
C156	C-8						
C157	C-8						
C158	C-8						
C159	B-7						
C160	B-8						
C164	C-6						
C165	C-7						
C167	C-7						
C168	C-8						



F [REG OUT]



N [REMOTE CONTROL]
[HEAD AMP]

